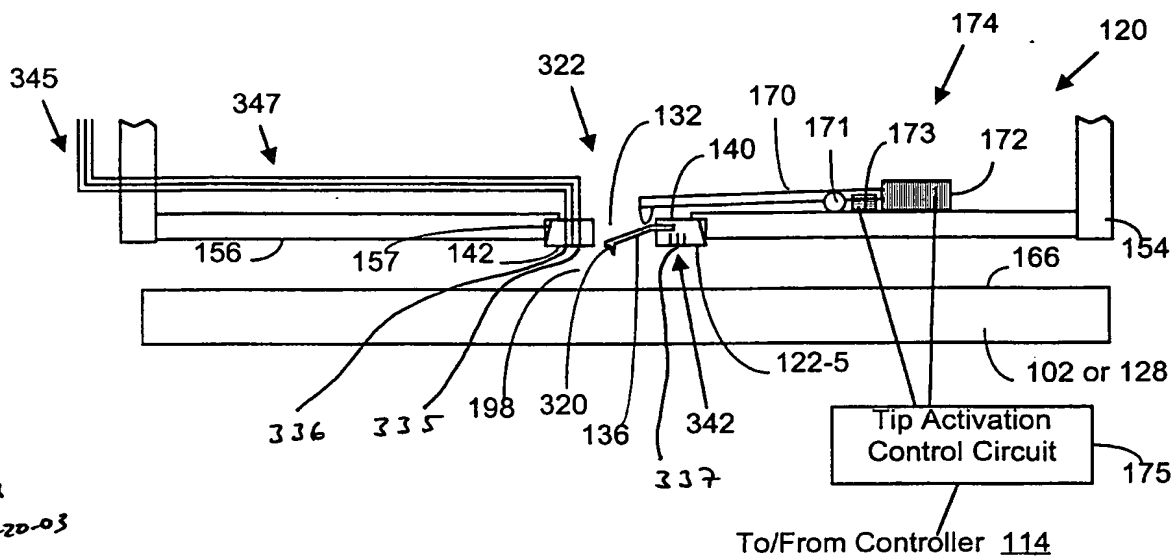


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approved
 CME 3-20-03

Figure 35

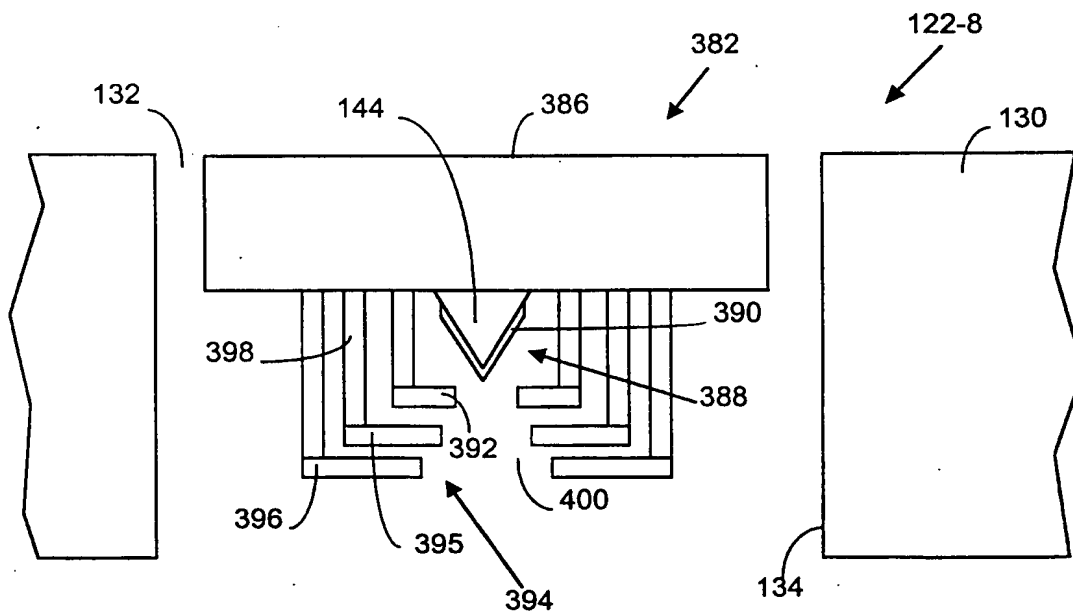
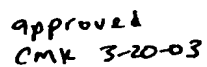


Figure 41

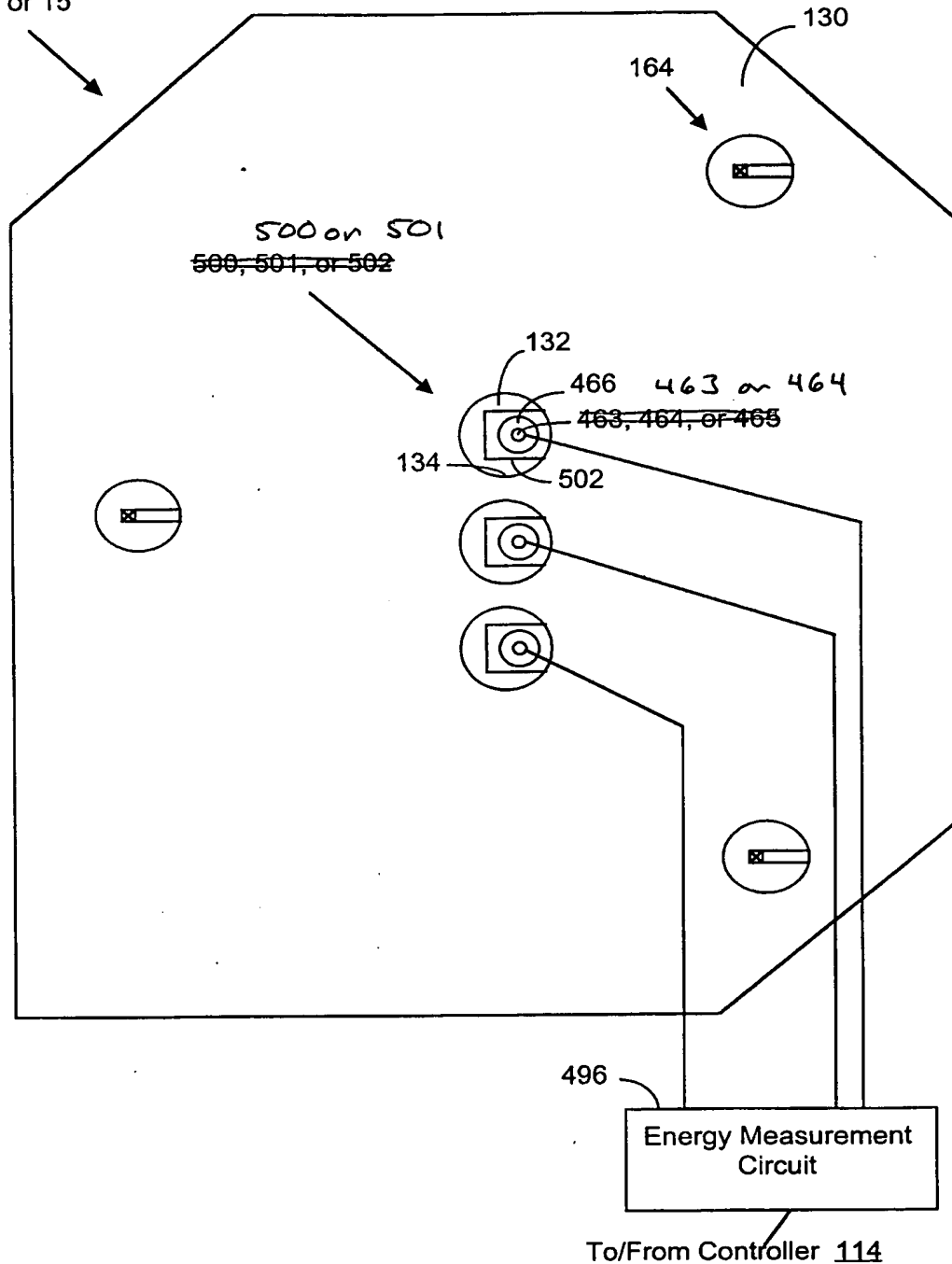


The diagram illustrates a vacuum arc chamber 120. It features a cathode assembly 132 and an anode assembly 154. The cathode assembly includes a cathode 140 and a cathode support 142. The anode assembly includes an anode 156 and an anode support 157. A central rod 122-12 is positioned between the cathode and anode. The chamber is connected to a Vacuum Arc Control Circuit 496, a Pumping Control Circuit 144, and a To/From Controller 114. A block labeled 123 is also shown.

Figure 55

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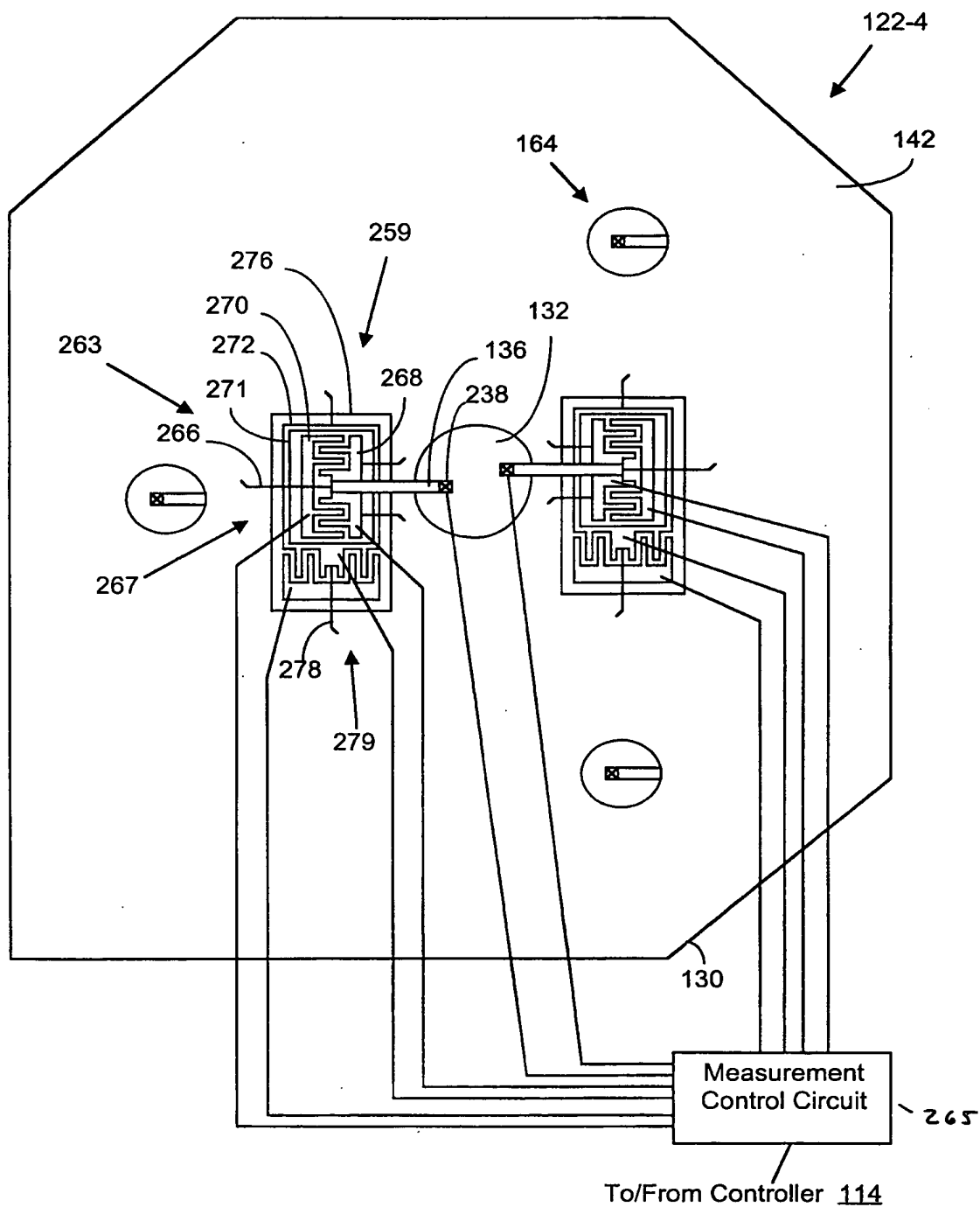
122-14 or 15



approved
 CMK 3-20-03

Figure 58

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approved
 cmx-3-20-03

Figure 26

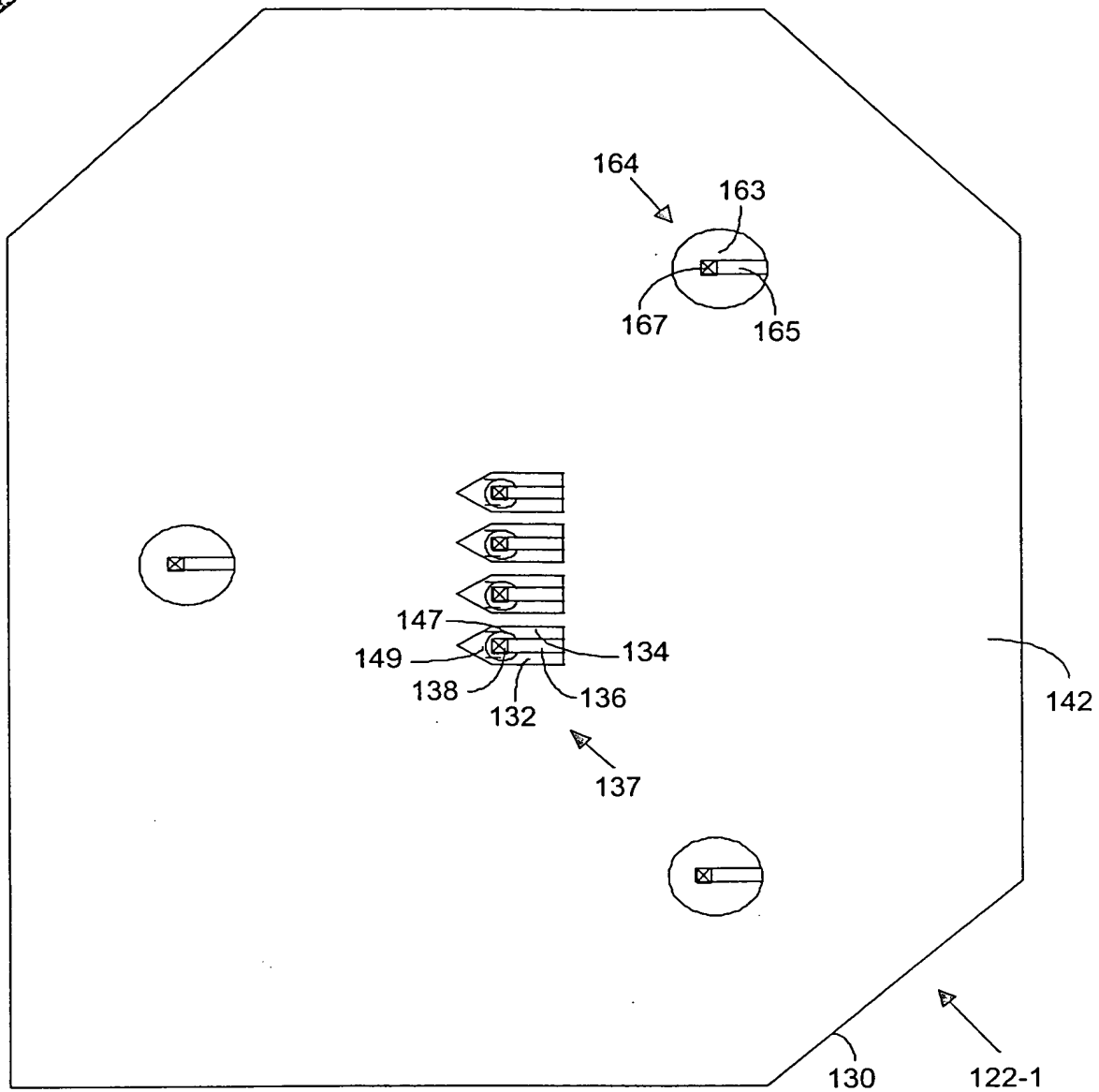


Figure 2

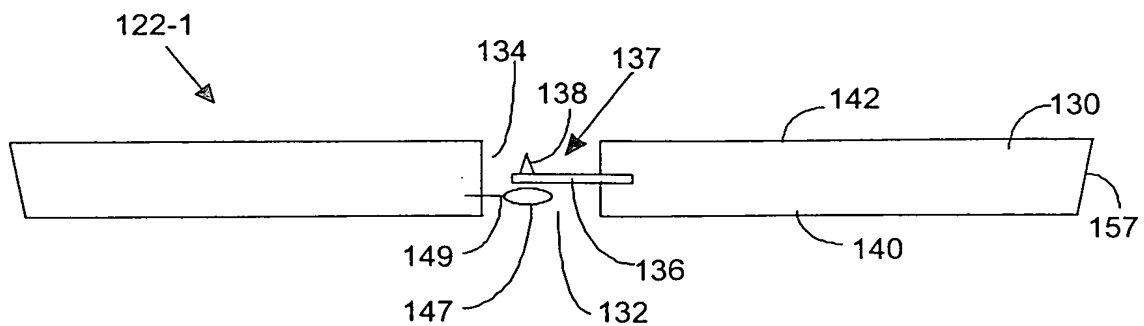


Figure 3

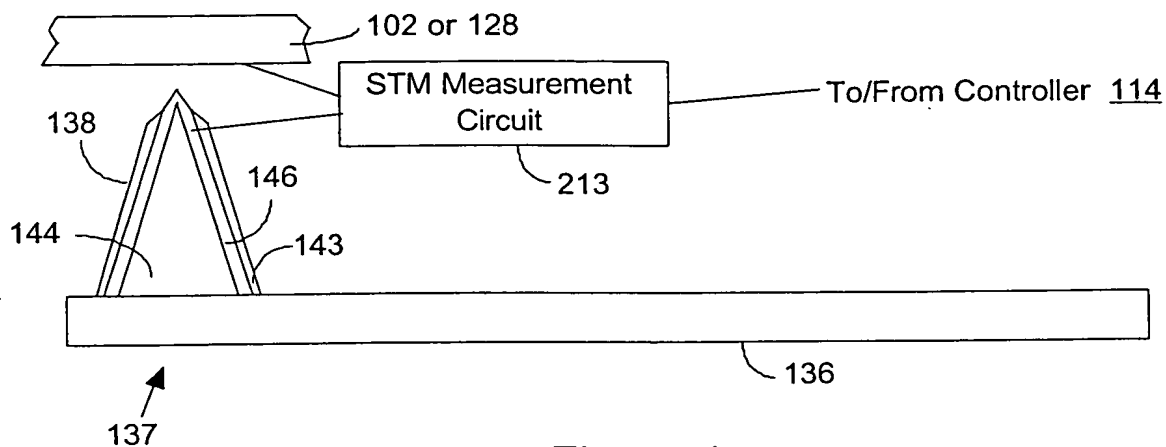


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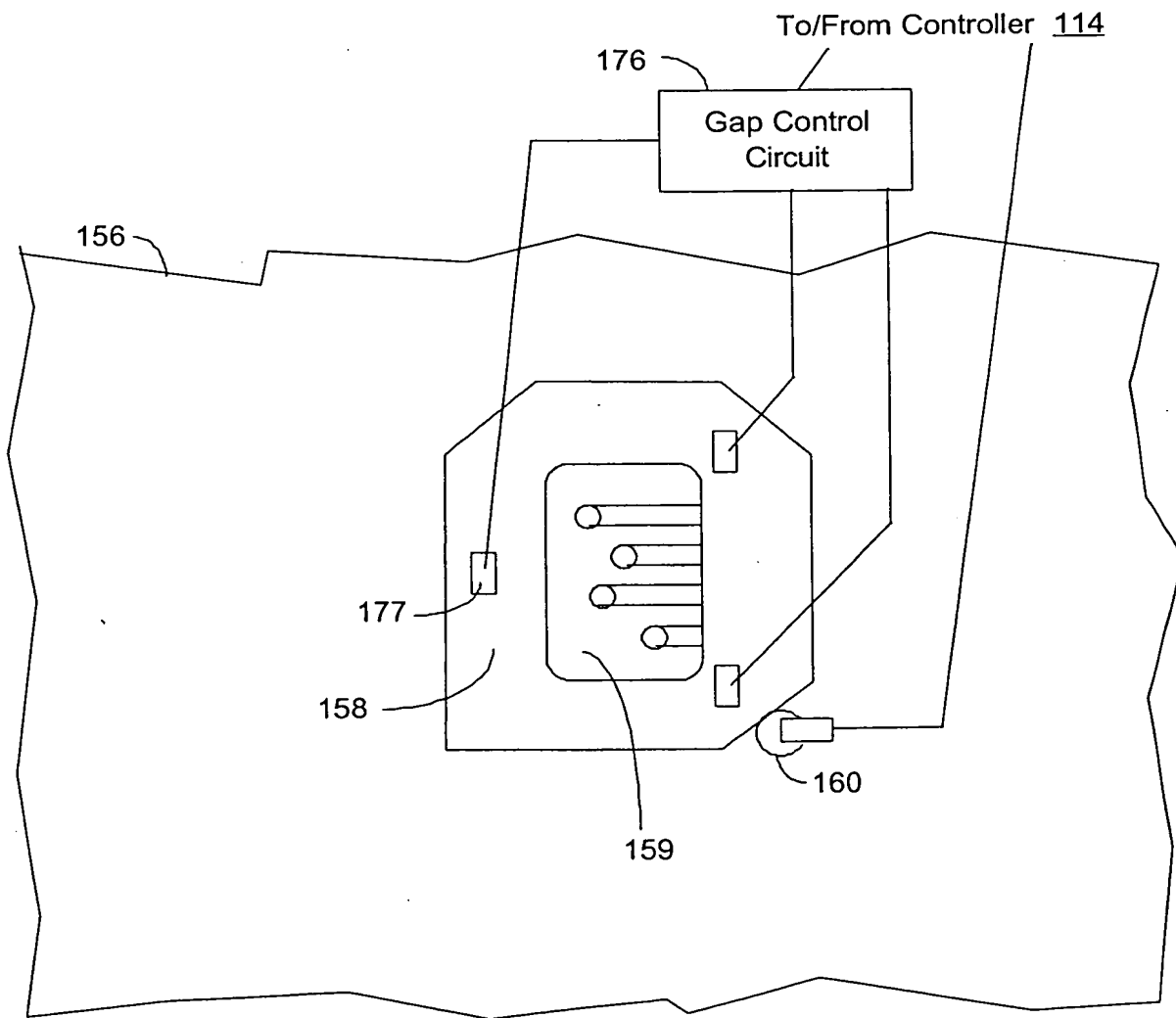


Figure 6

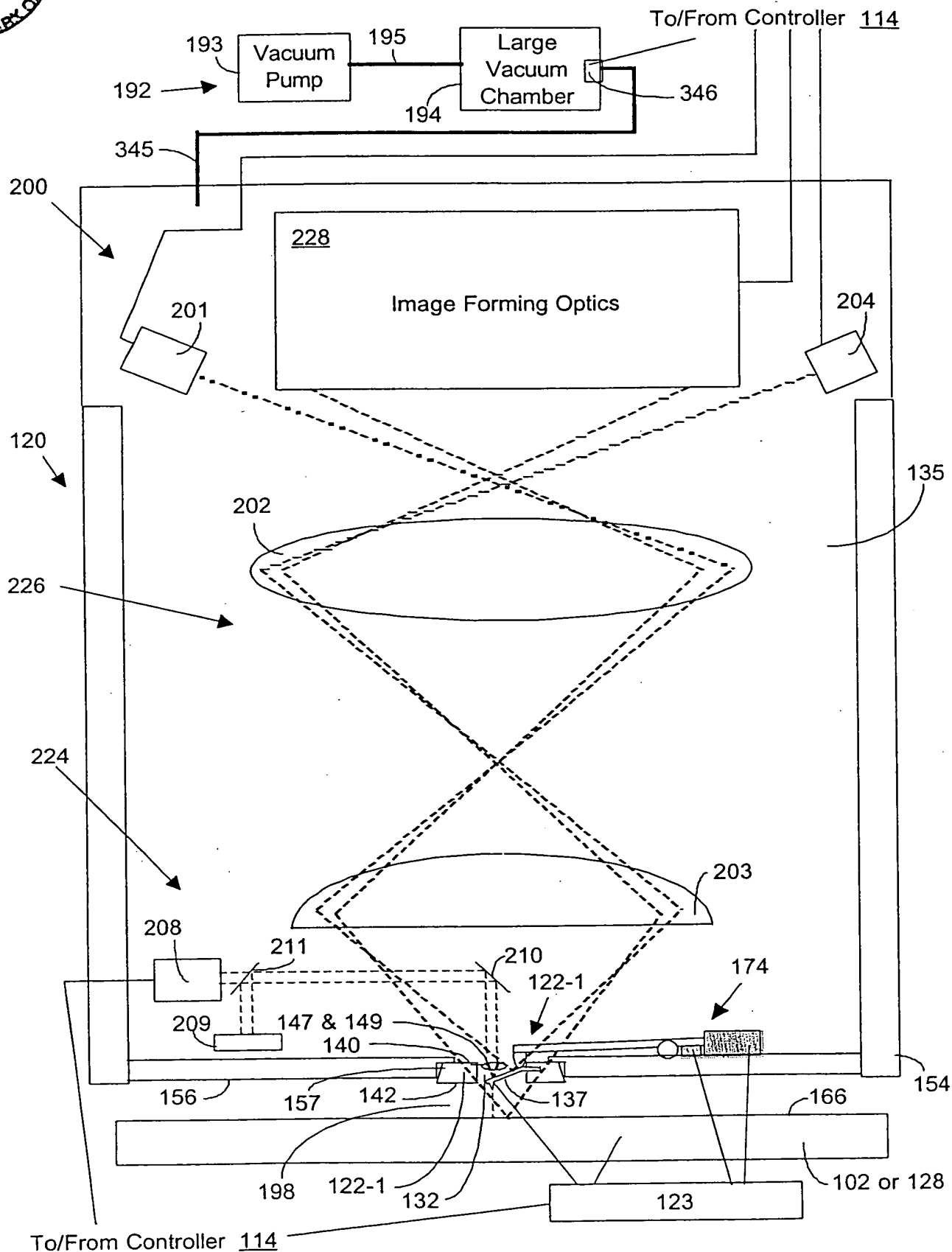


Figure 5

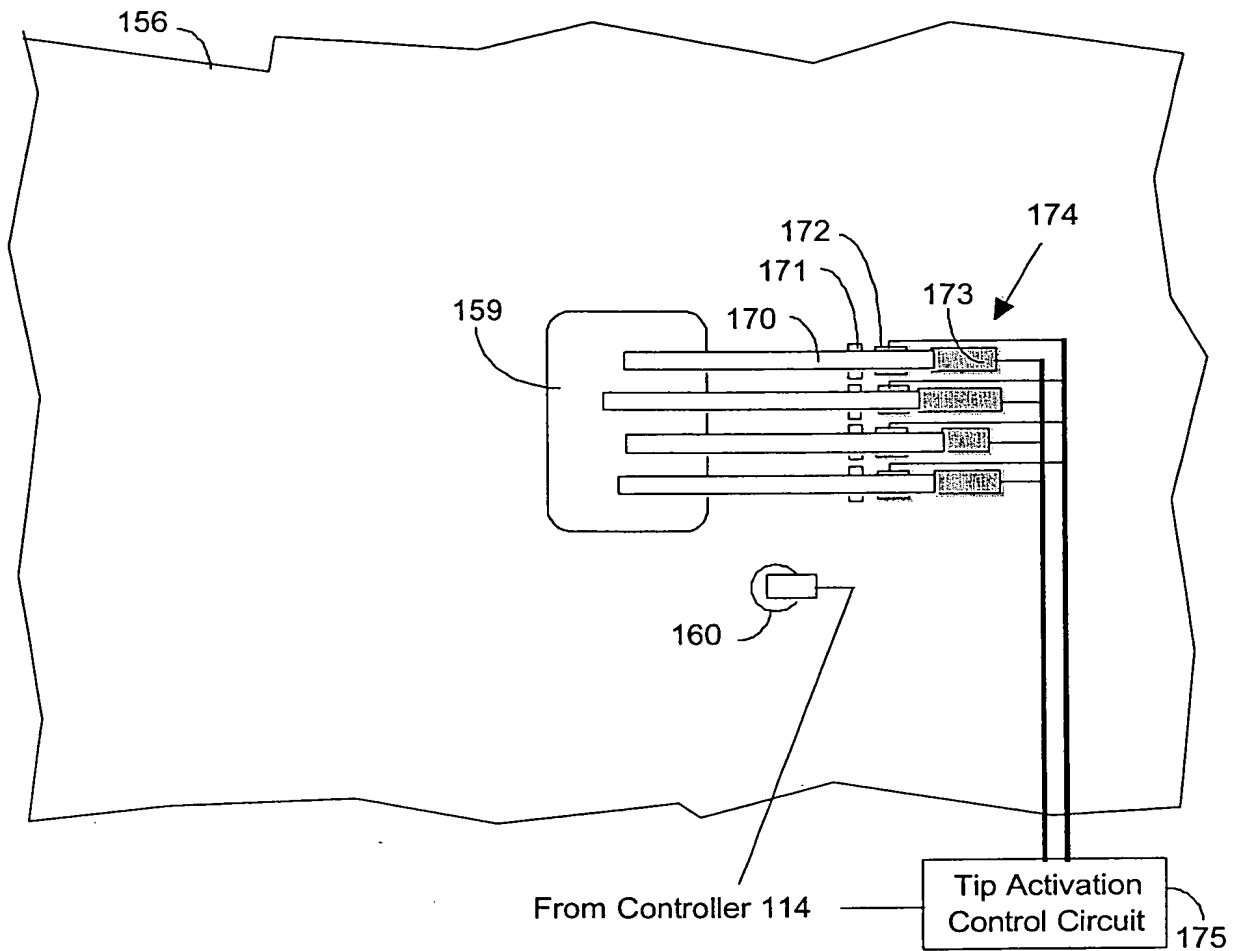


Figure 7

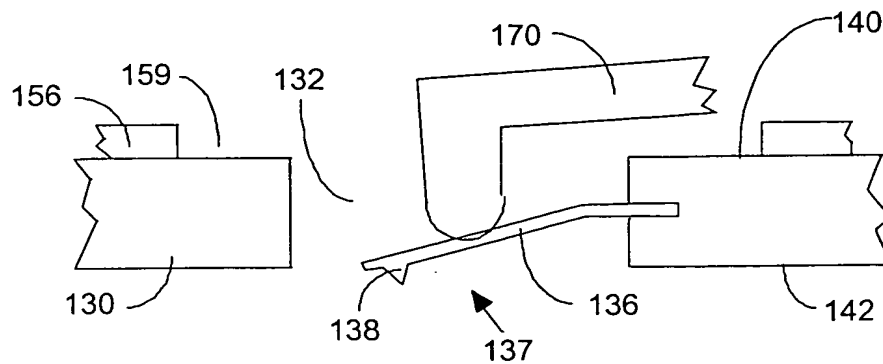


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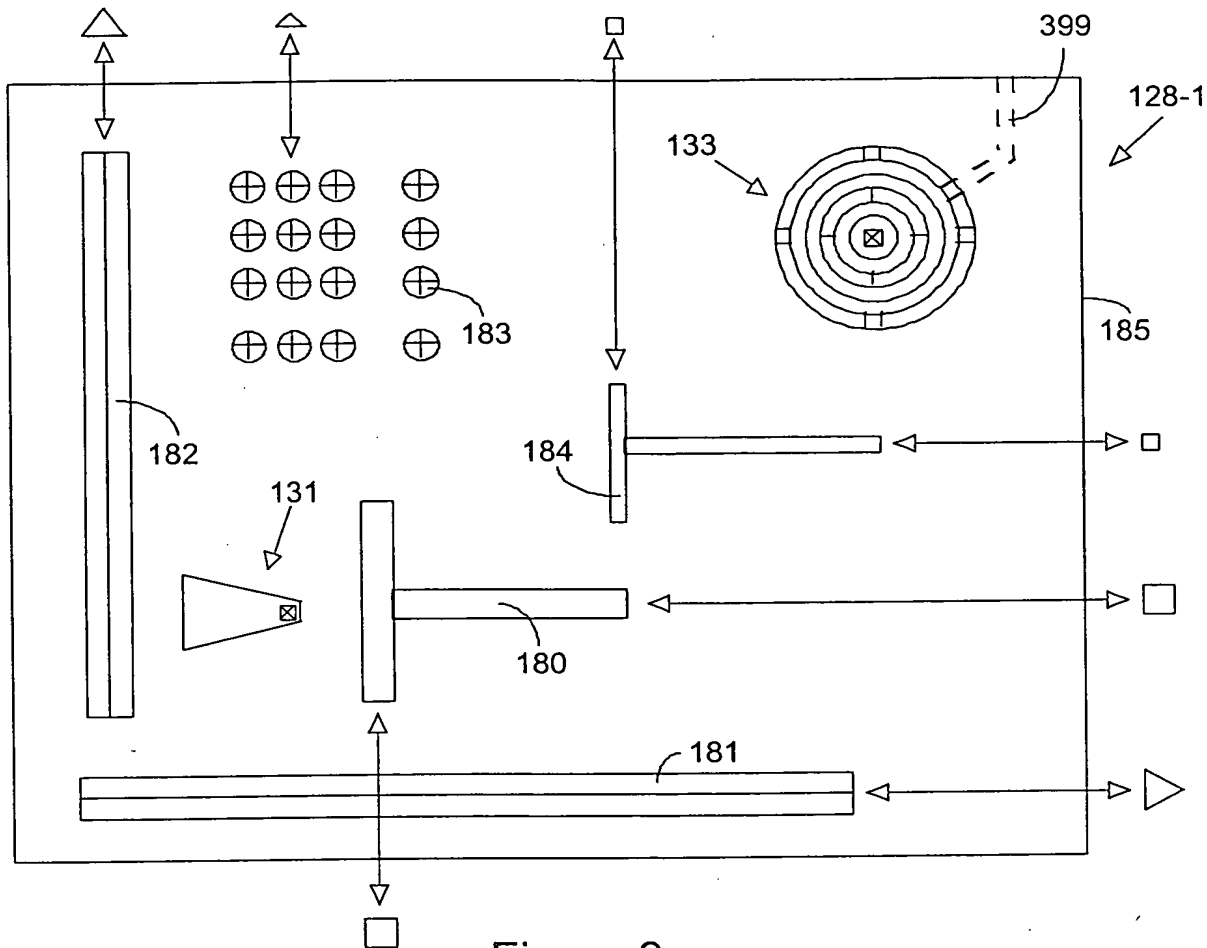


Figure 9

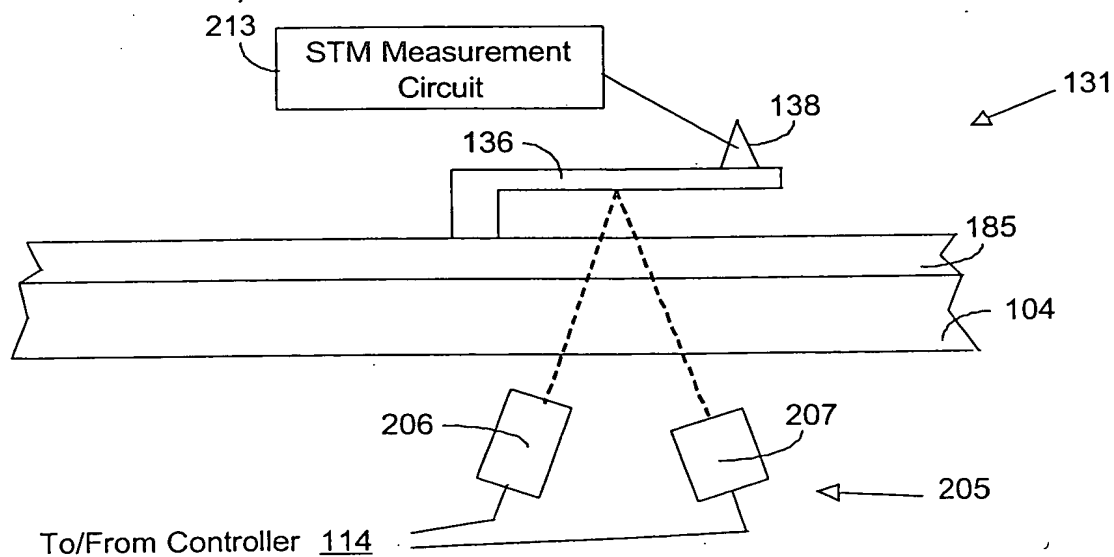


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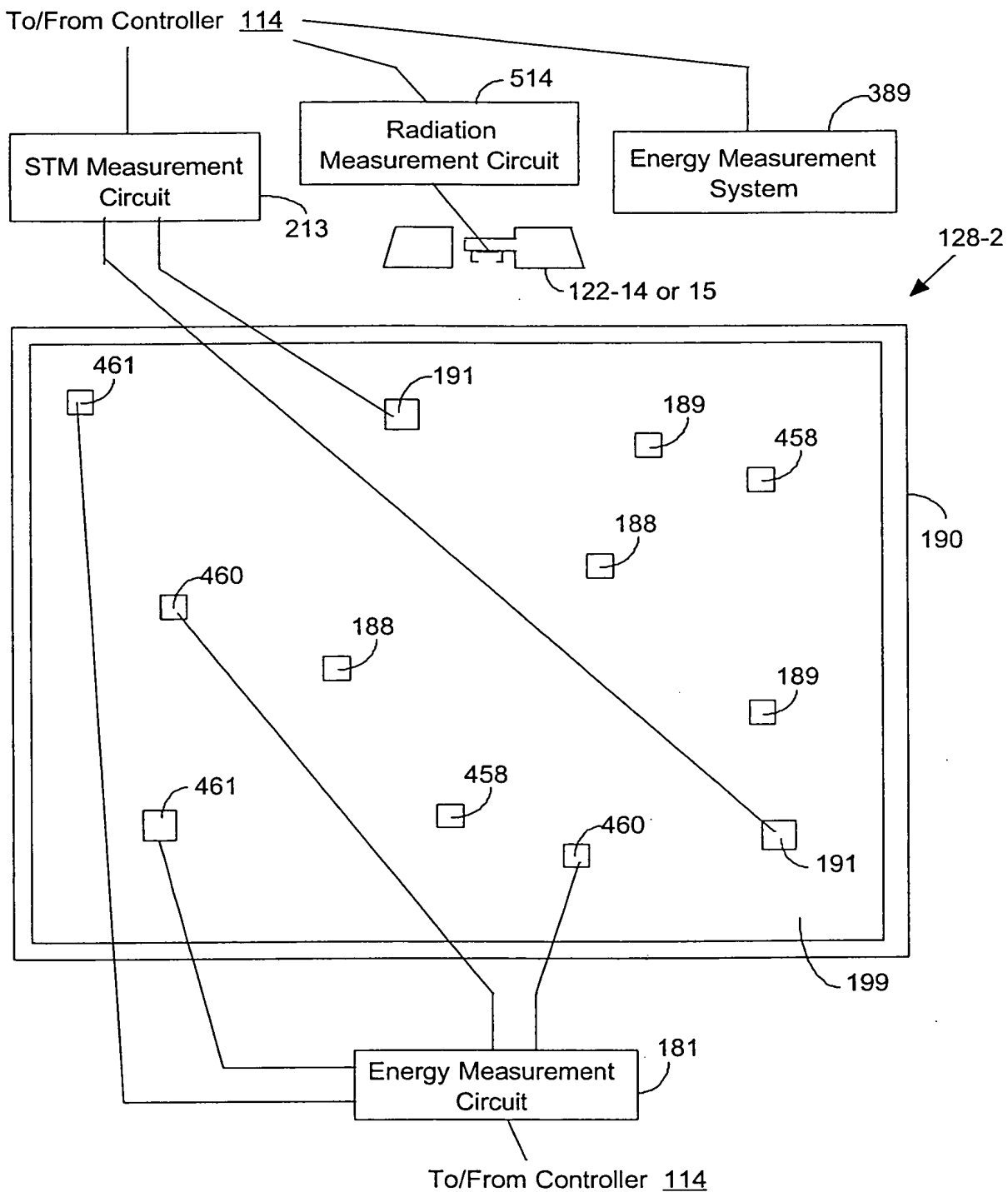


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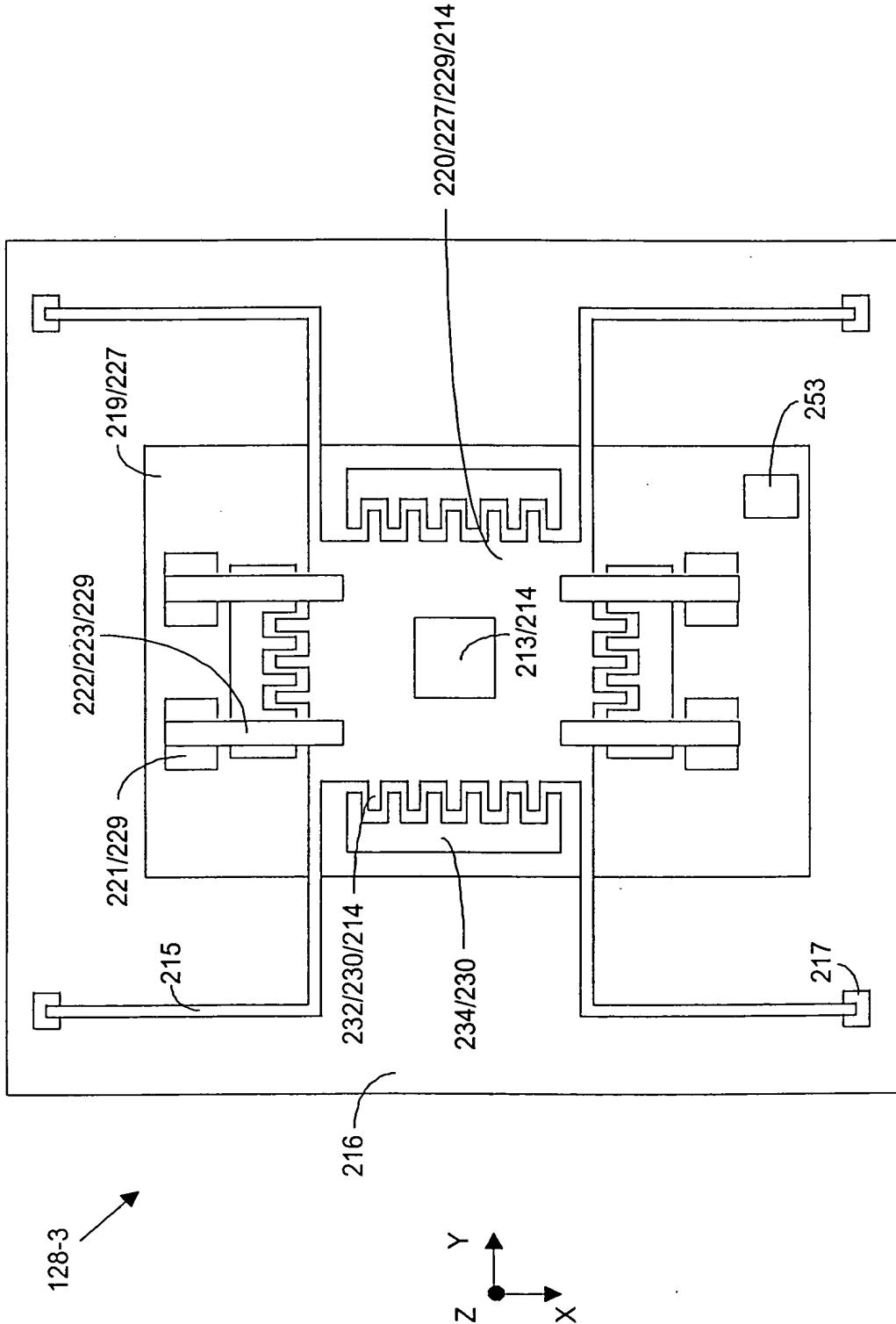


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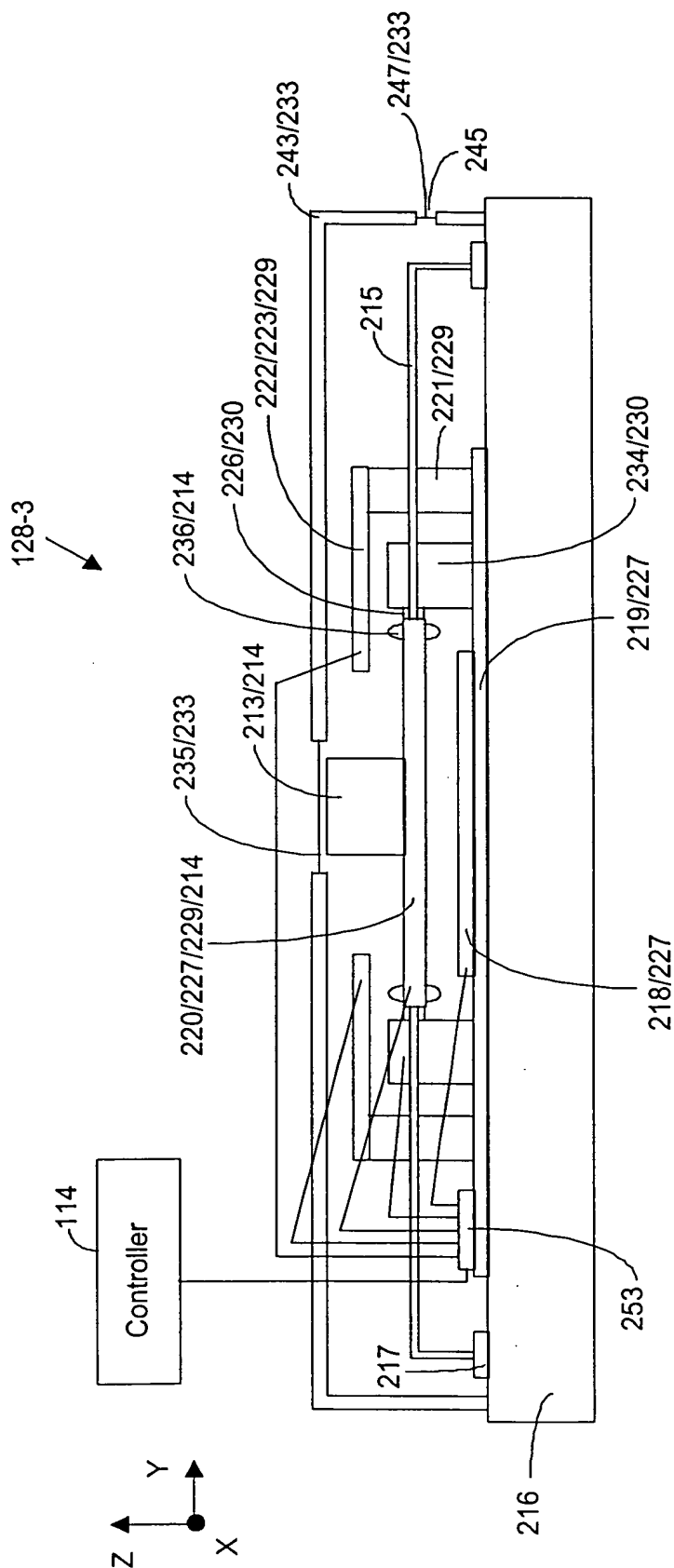


Figure 13

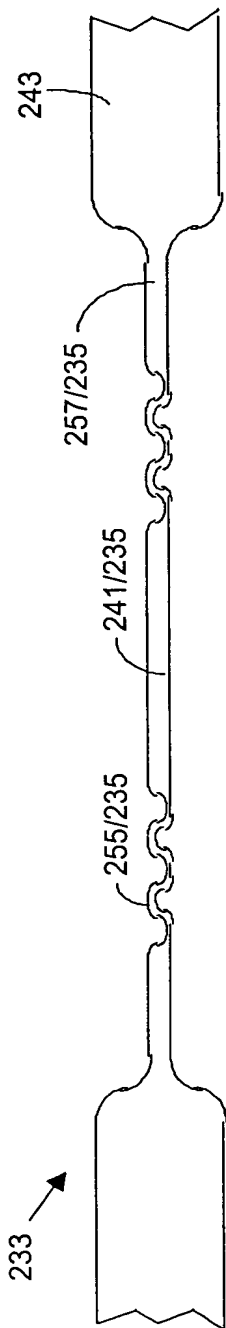


Figure 14

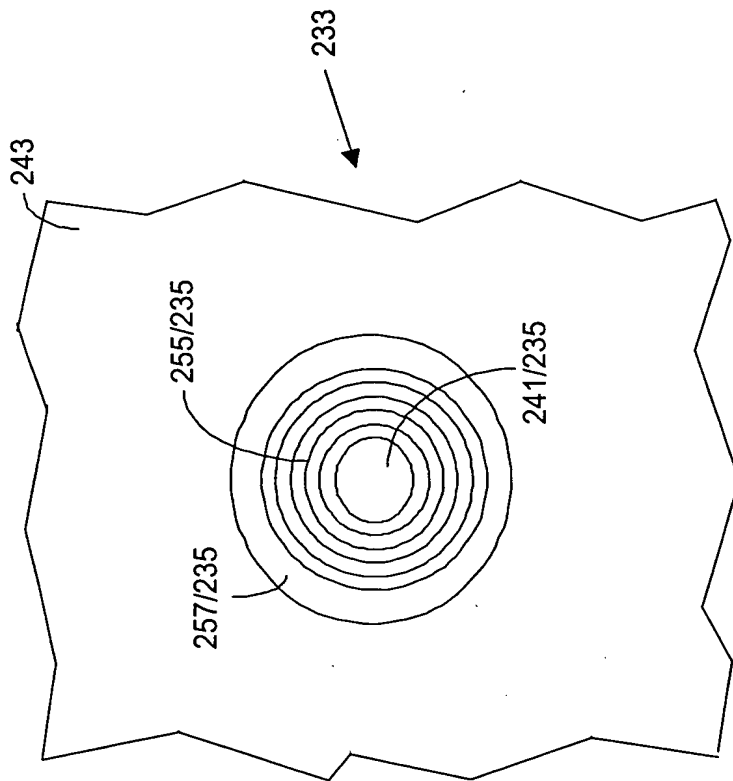


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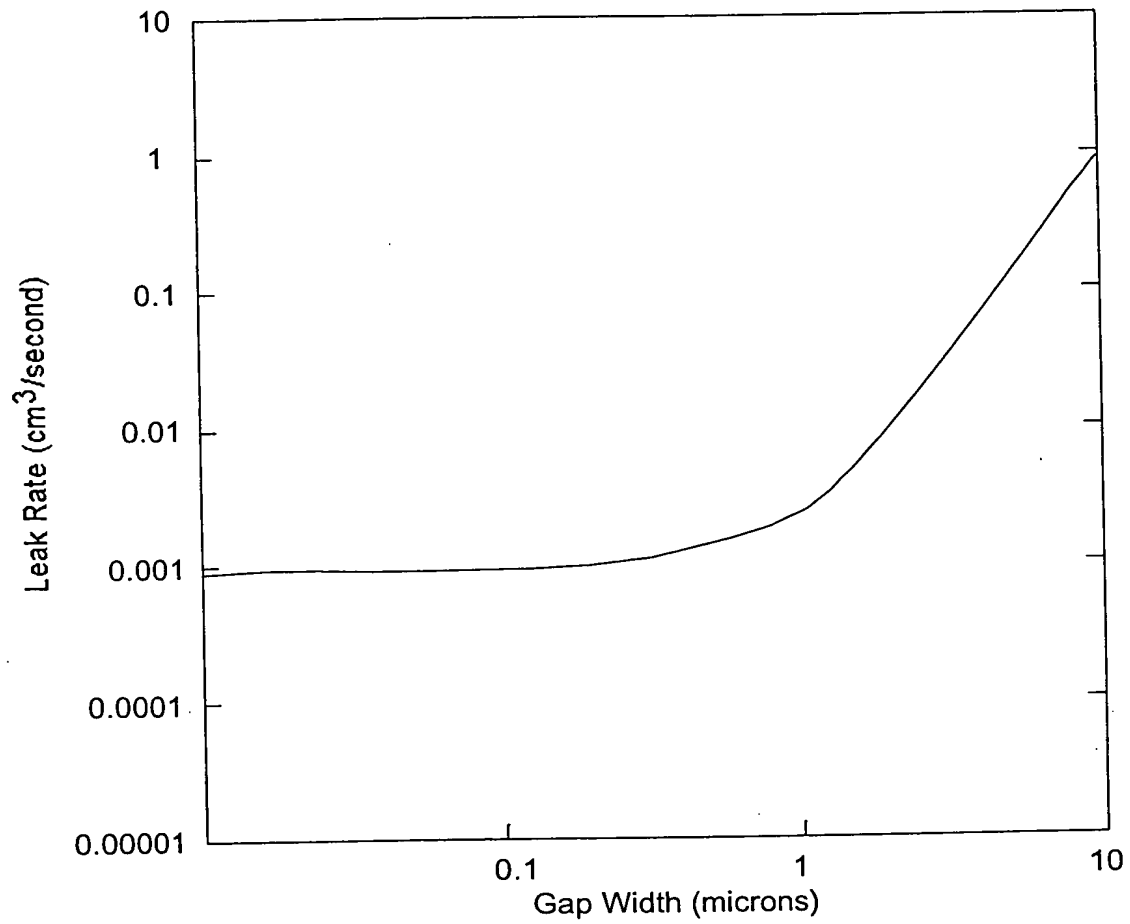


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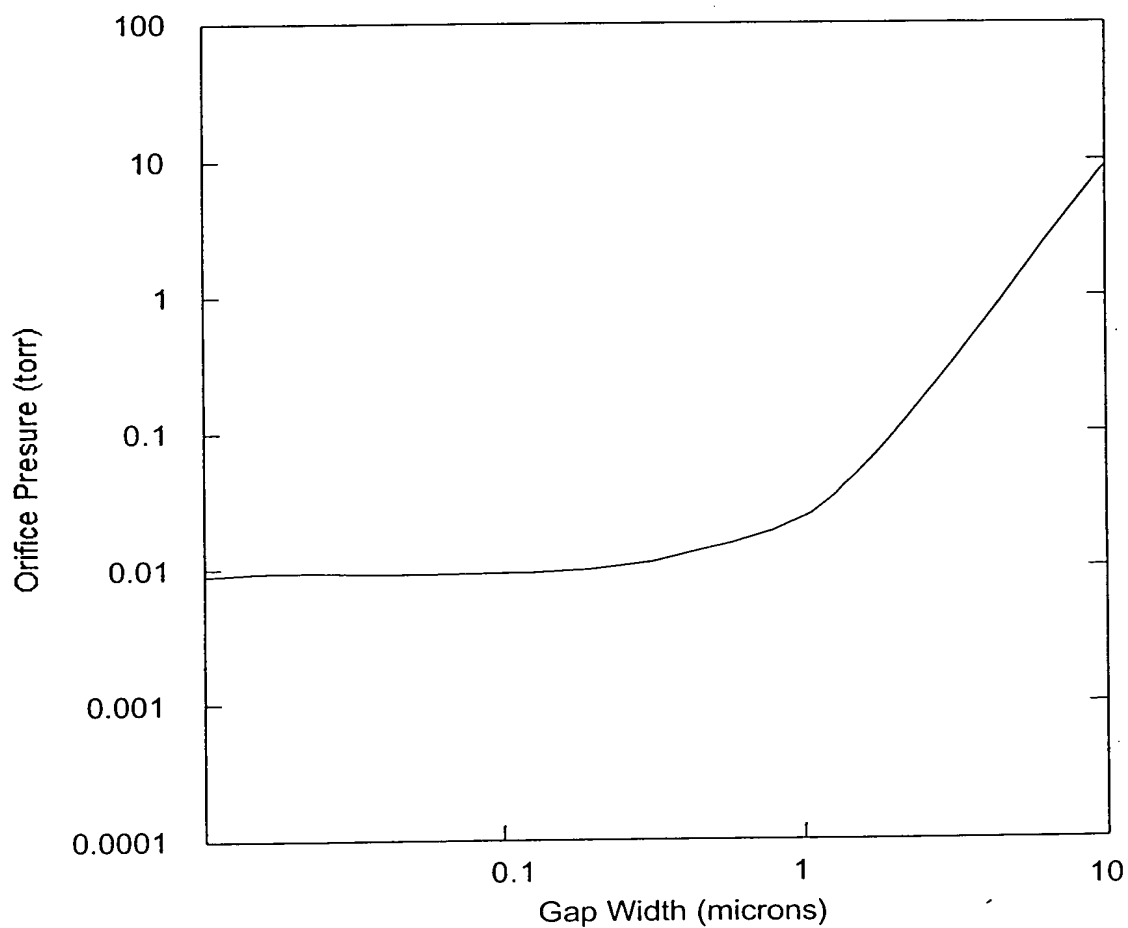
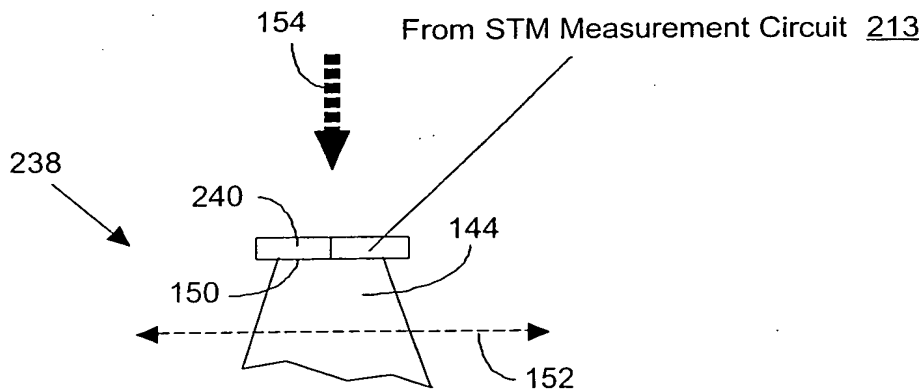
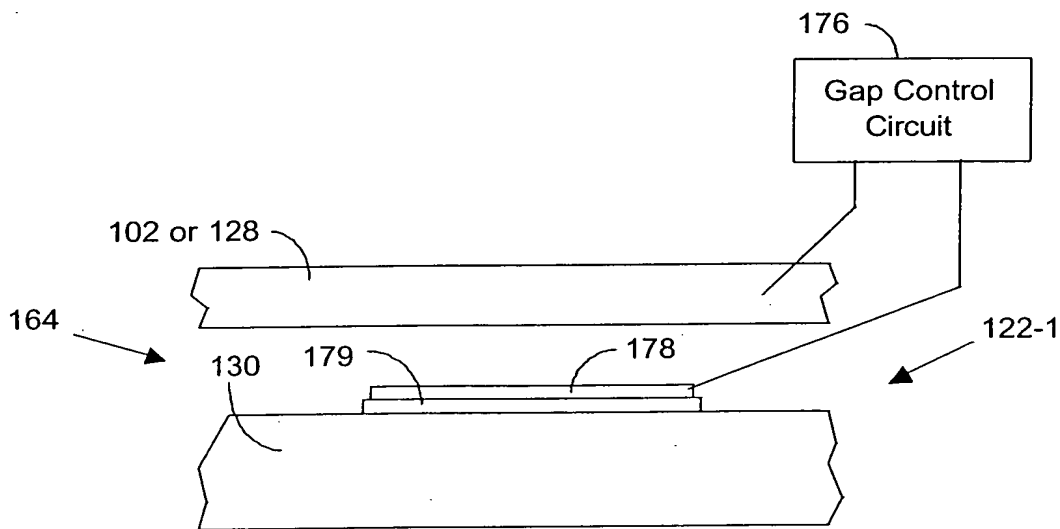
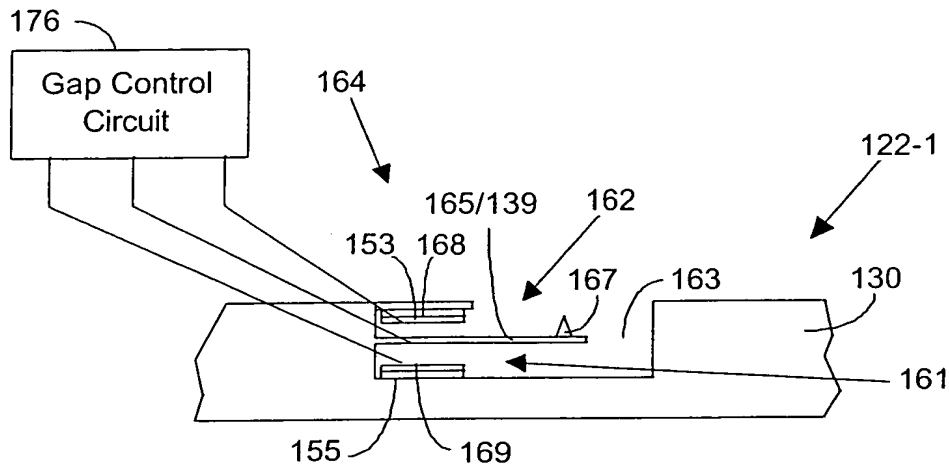
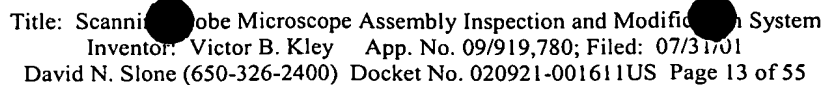
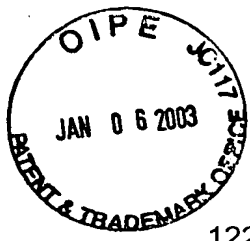


Figure 17





122-2

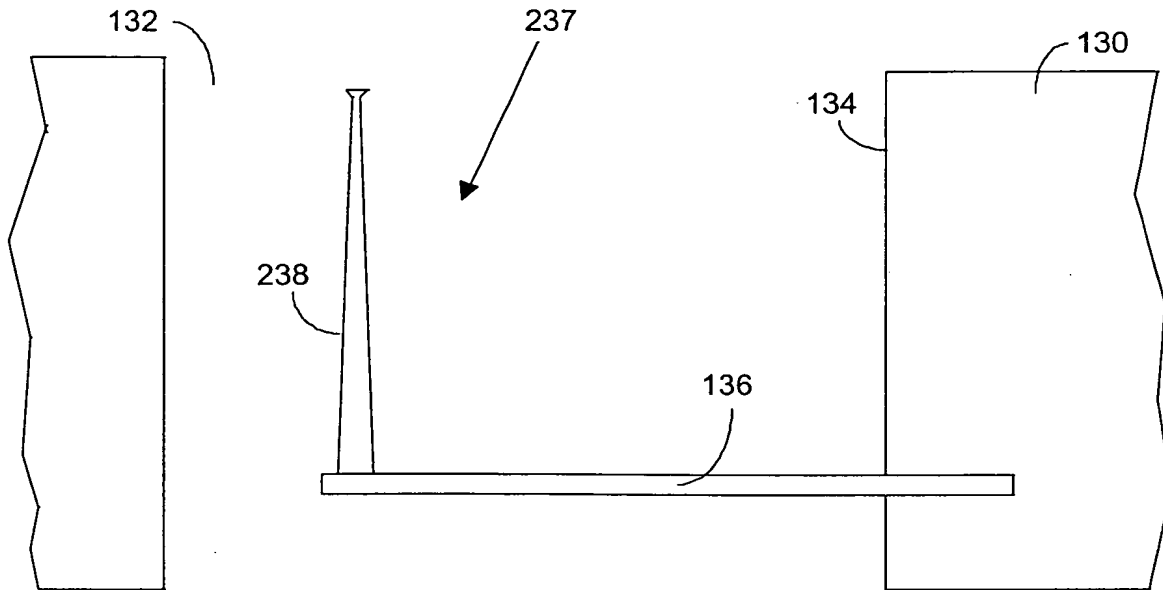


Figure 20

From STM
Measurement
Circuit 213

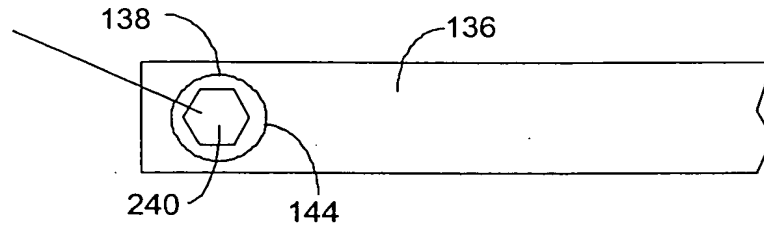


Figure 22

From STM
Measurement
Circuit 213

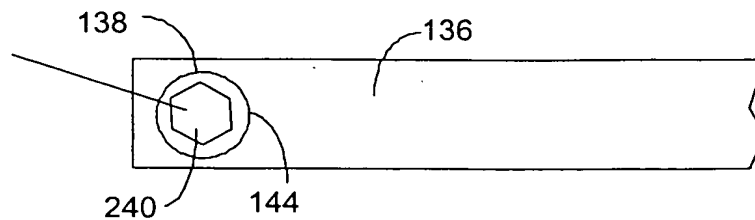


Figure 23

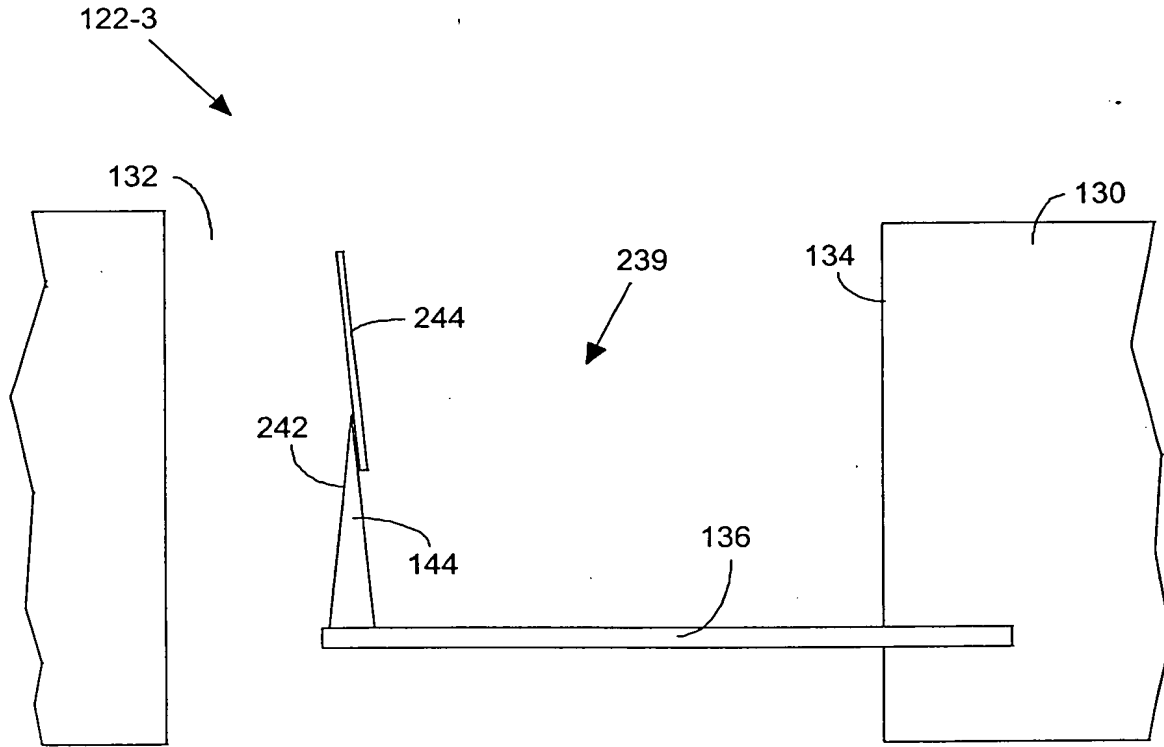


Figure 24

From STM Measurement Circuit 213

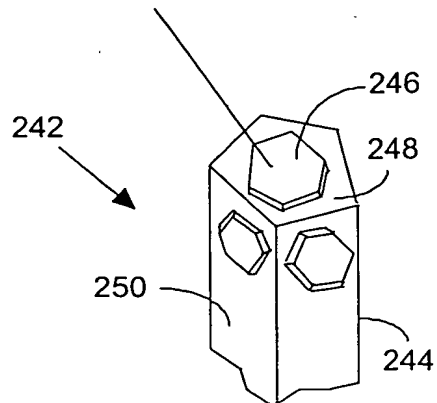
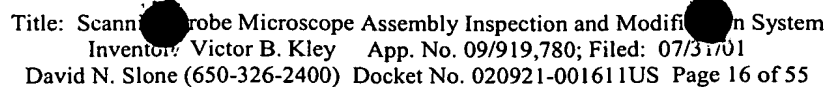
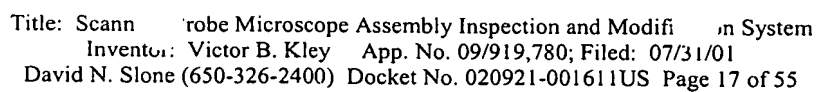


Figure 25





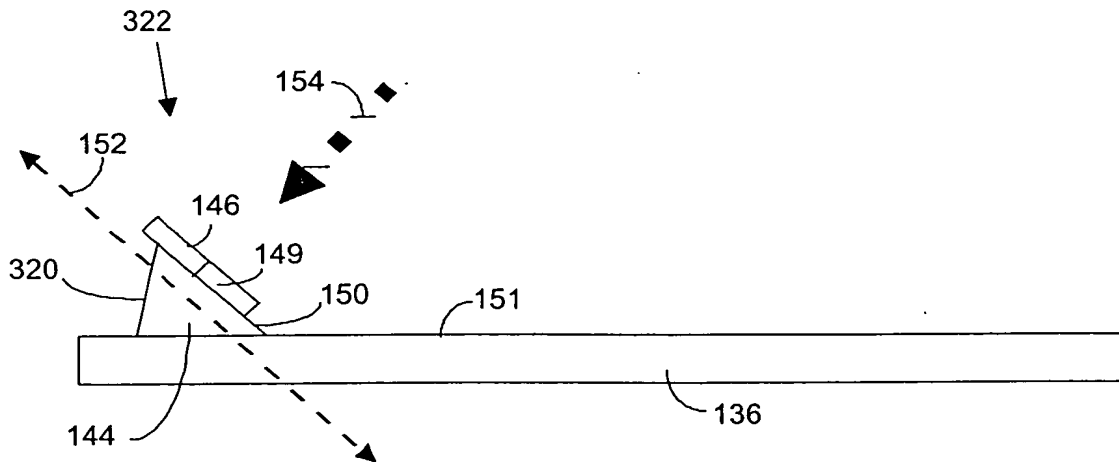


Figure 28

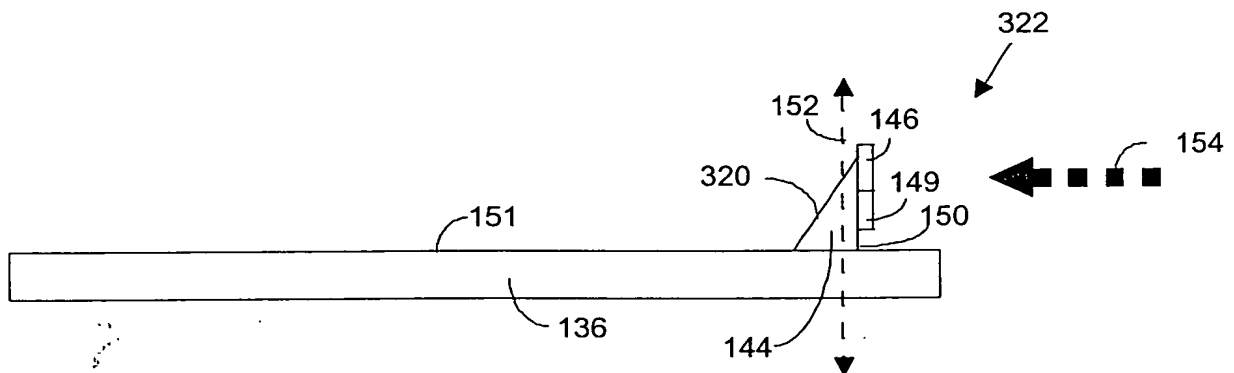


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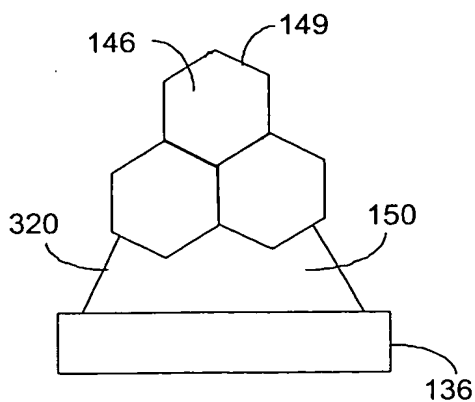


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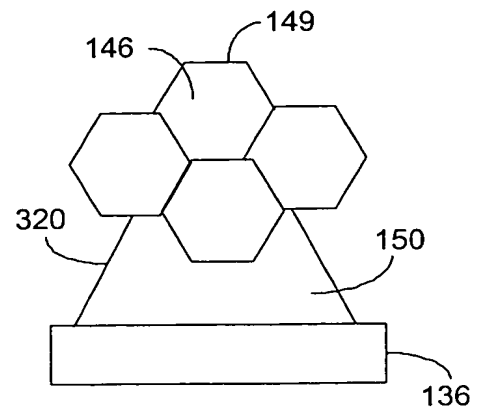


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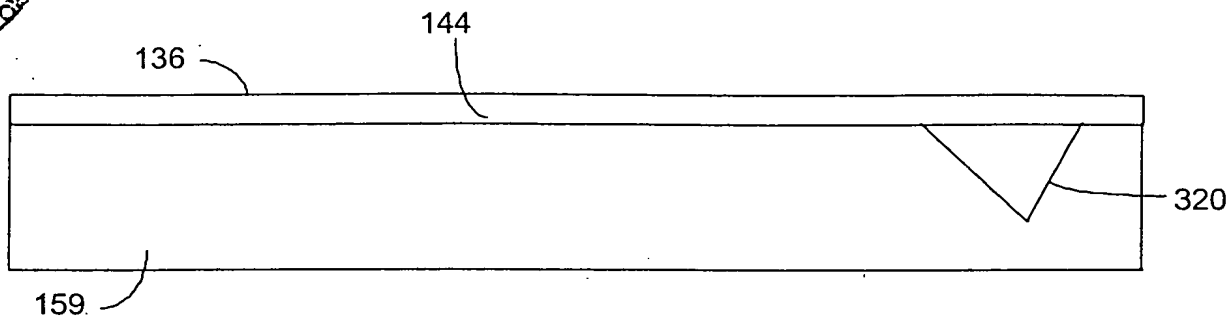


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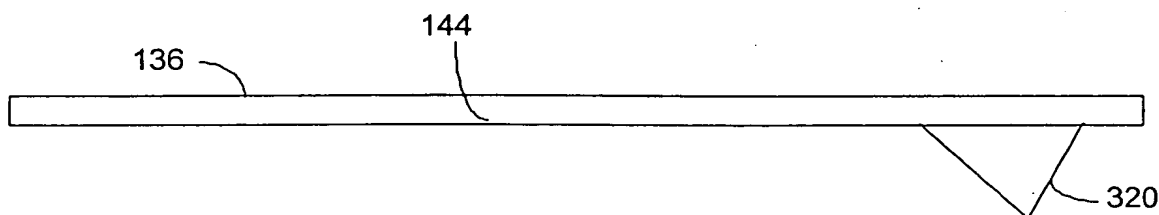


Figure 33

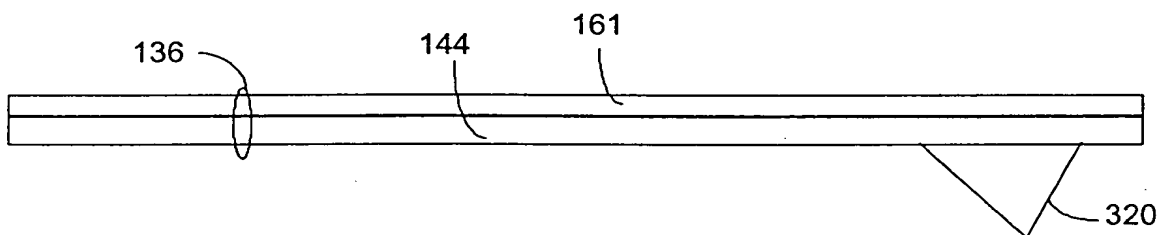


Figure 34

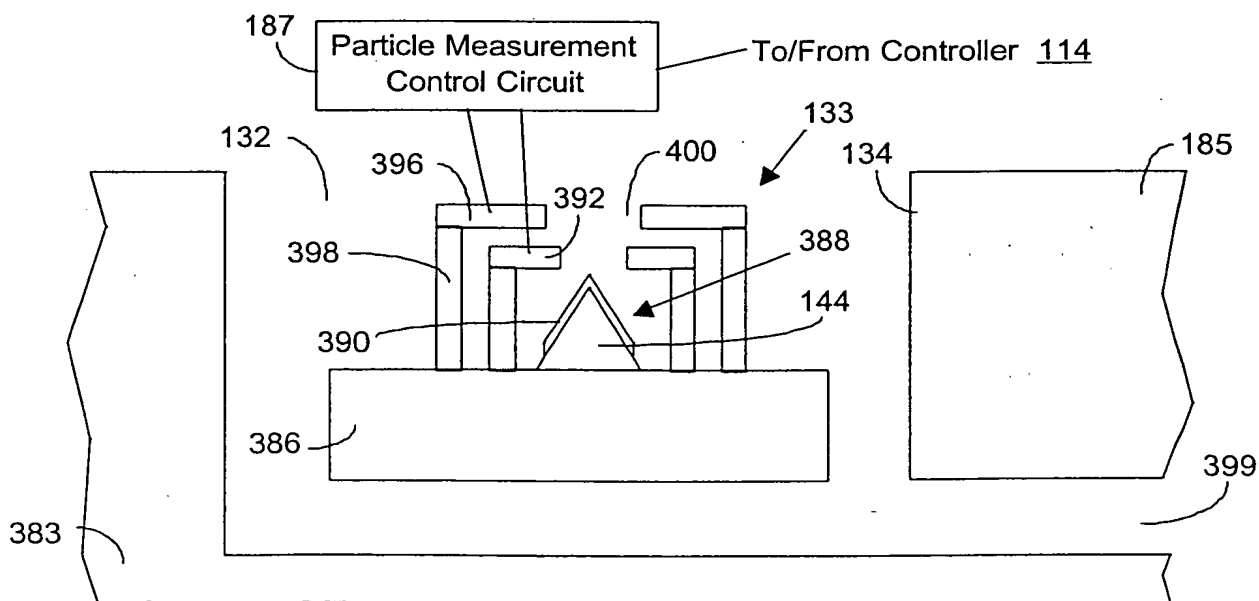
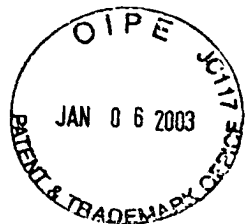


Figure 43



Title: Scanning Probe Microscope Assembly Inspection and Modification System
Inventor: Victor B. Kley App. No. 09/919,780; Filed: 07/31/01
David N. Slone (650-326-2400) Docket No. 020921-001611US Page 19 of 55

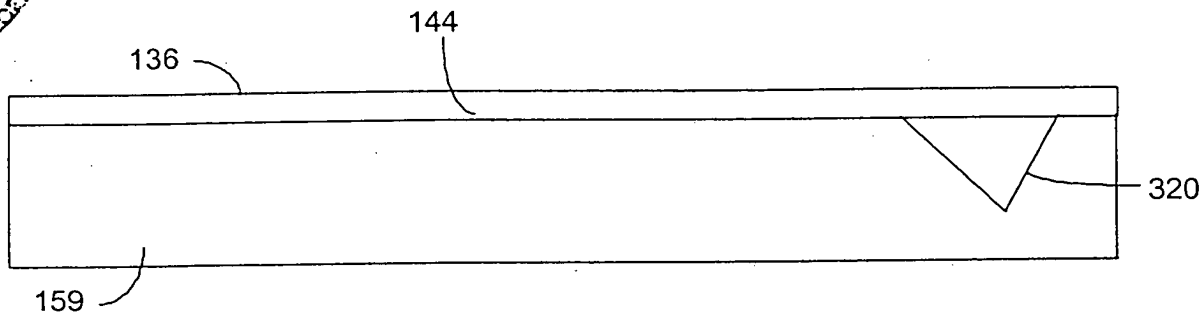


Figure 32

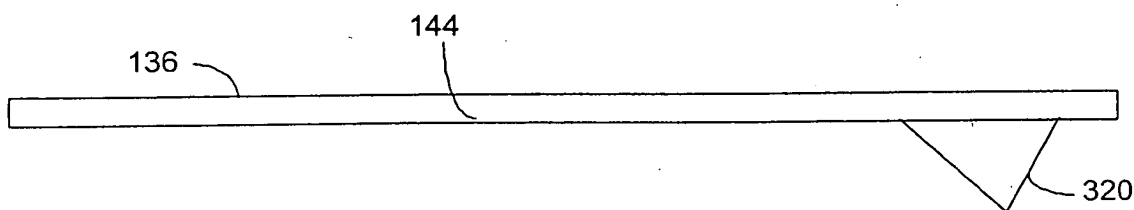


Figure 33

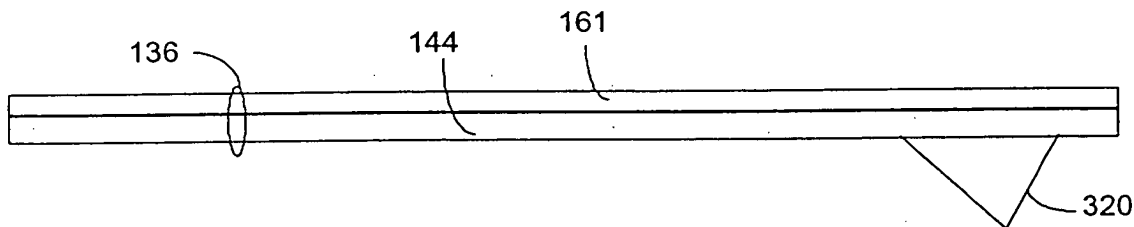


Figure 34

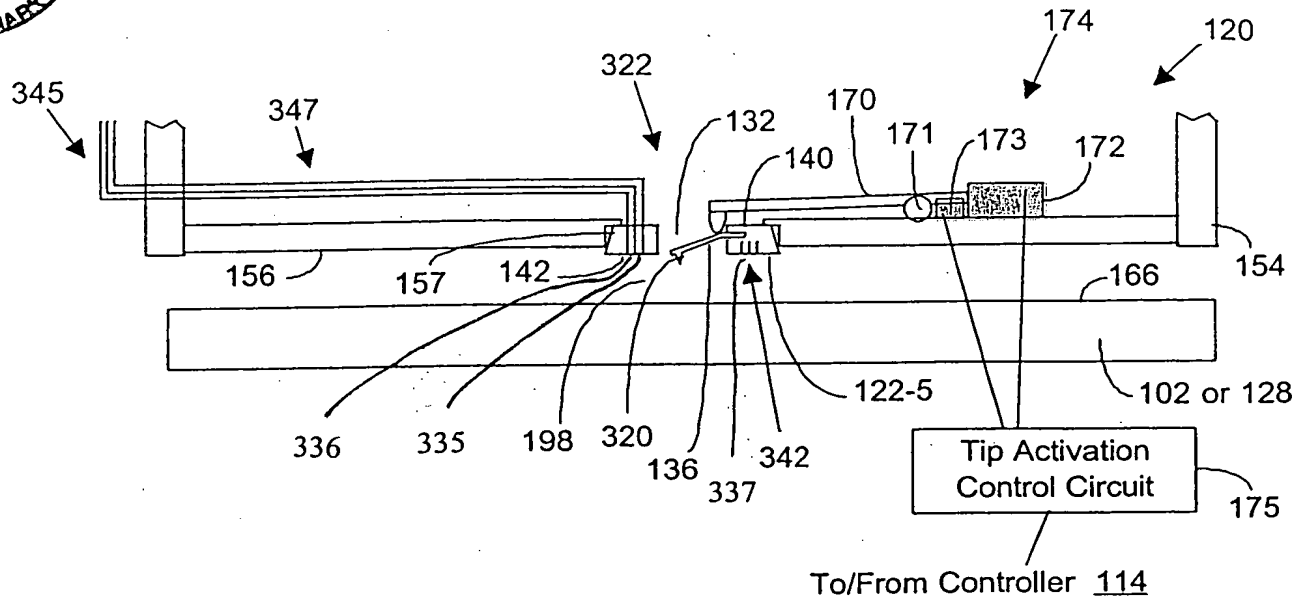


Figure 35

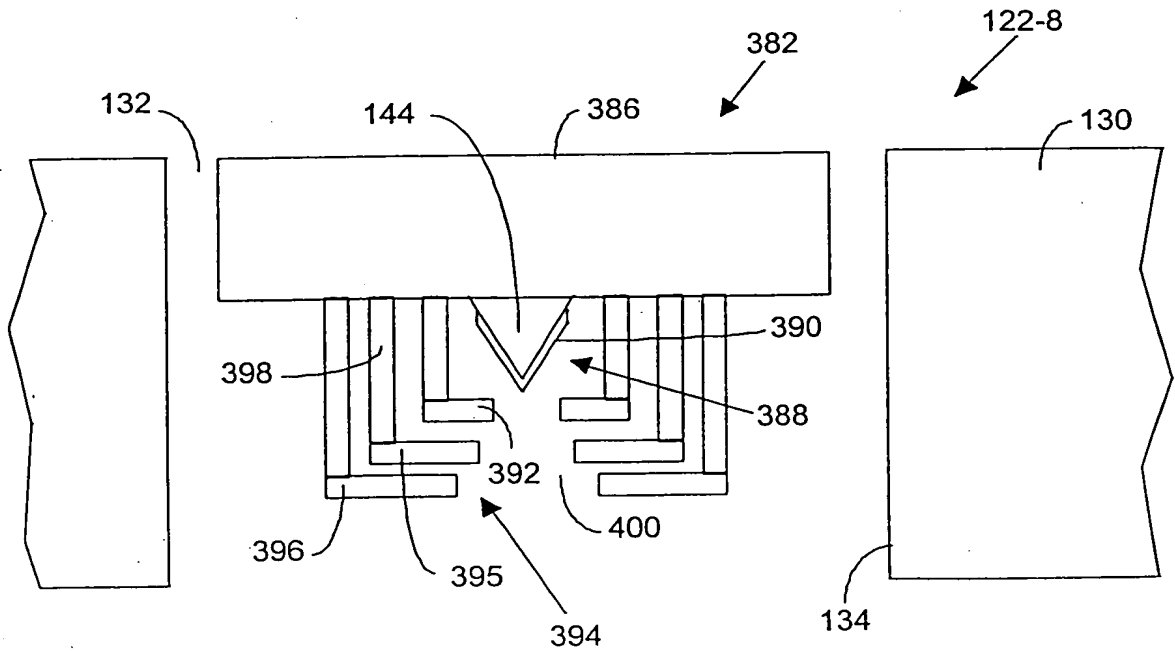


Figure 41

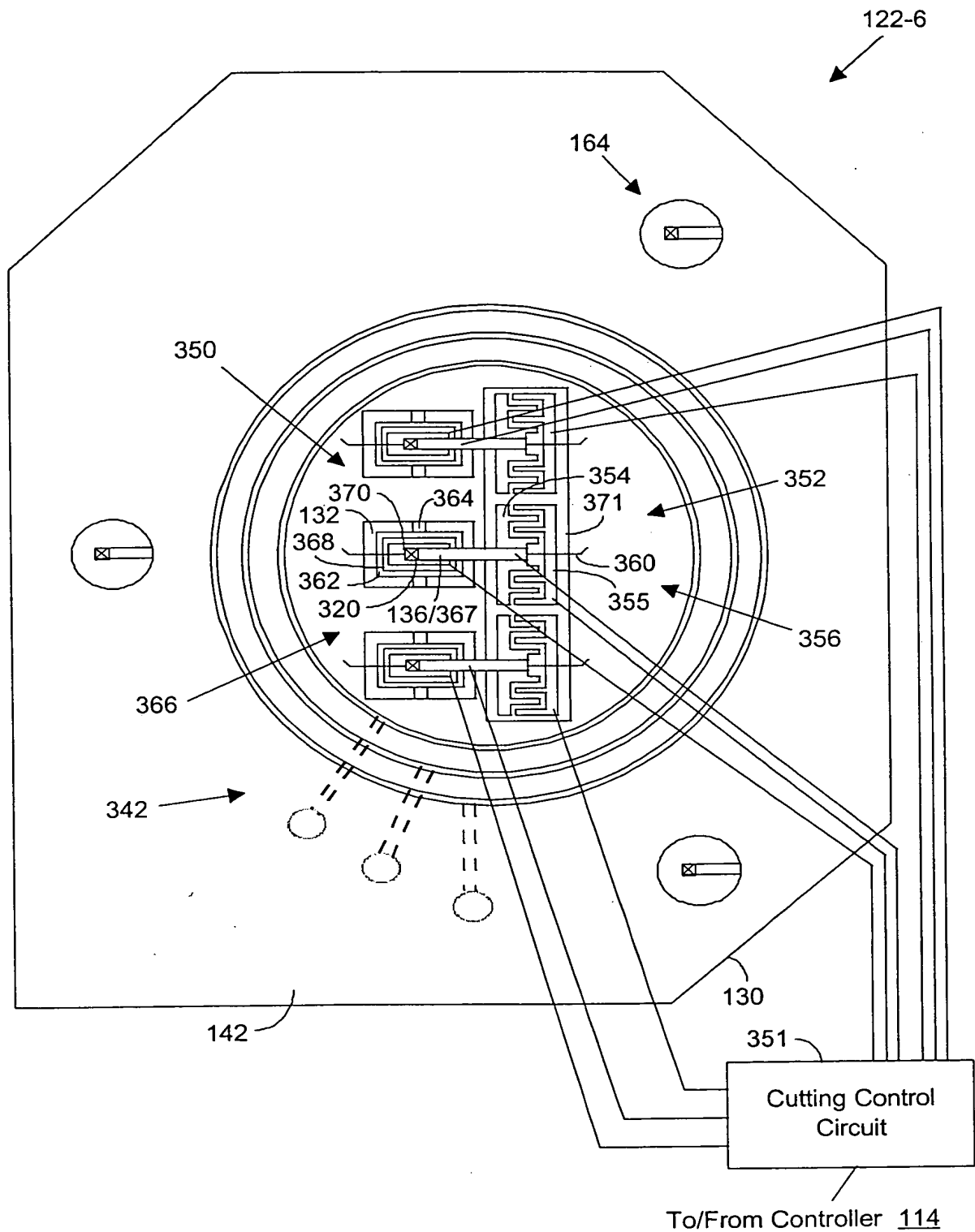


Figure 36

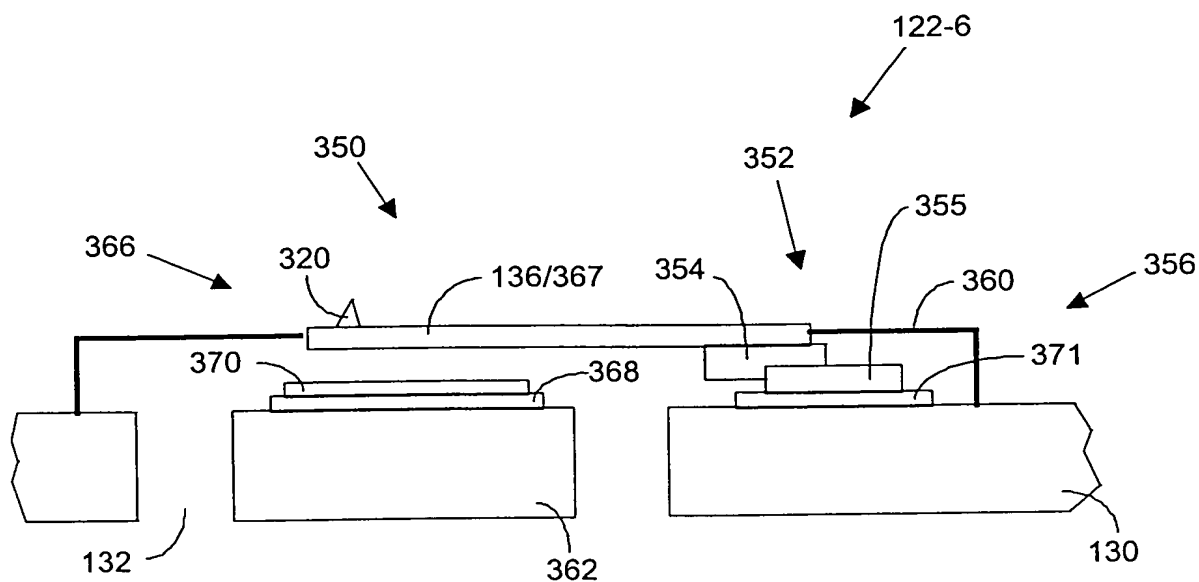


Figure 37

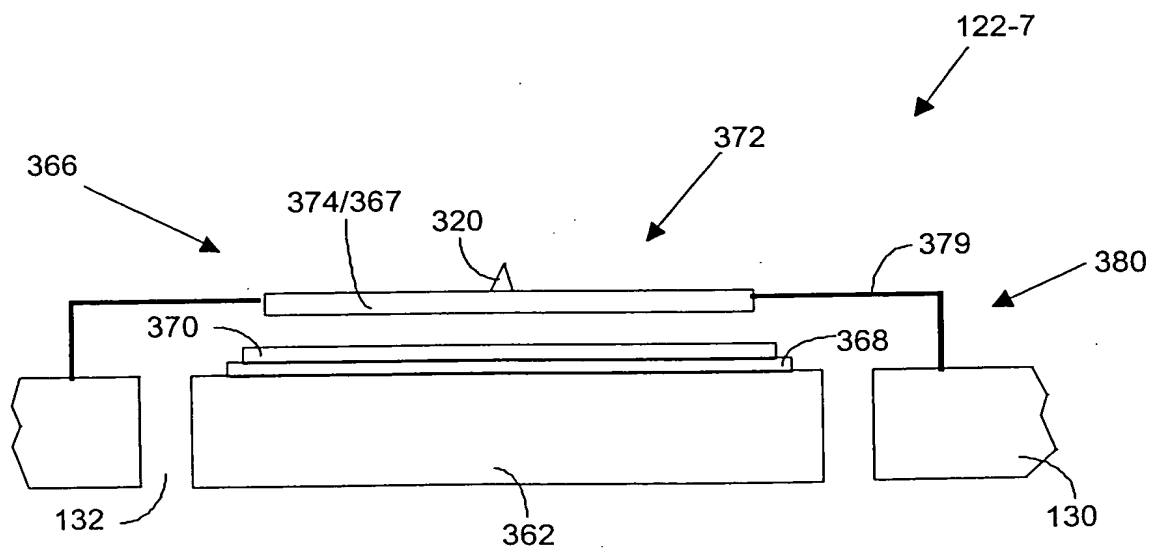


Figure 39

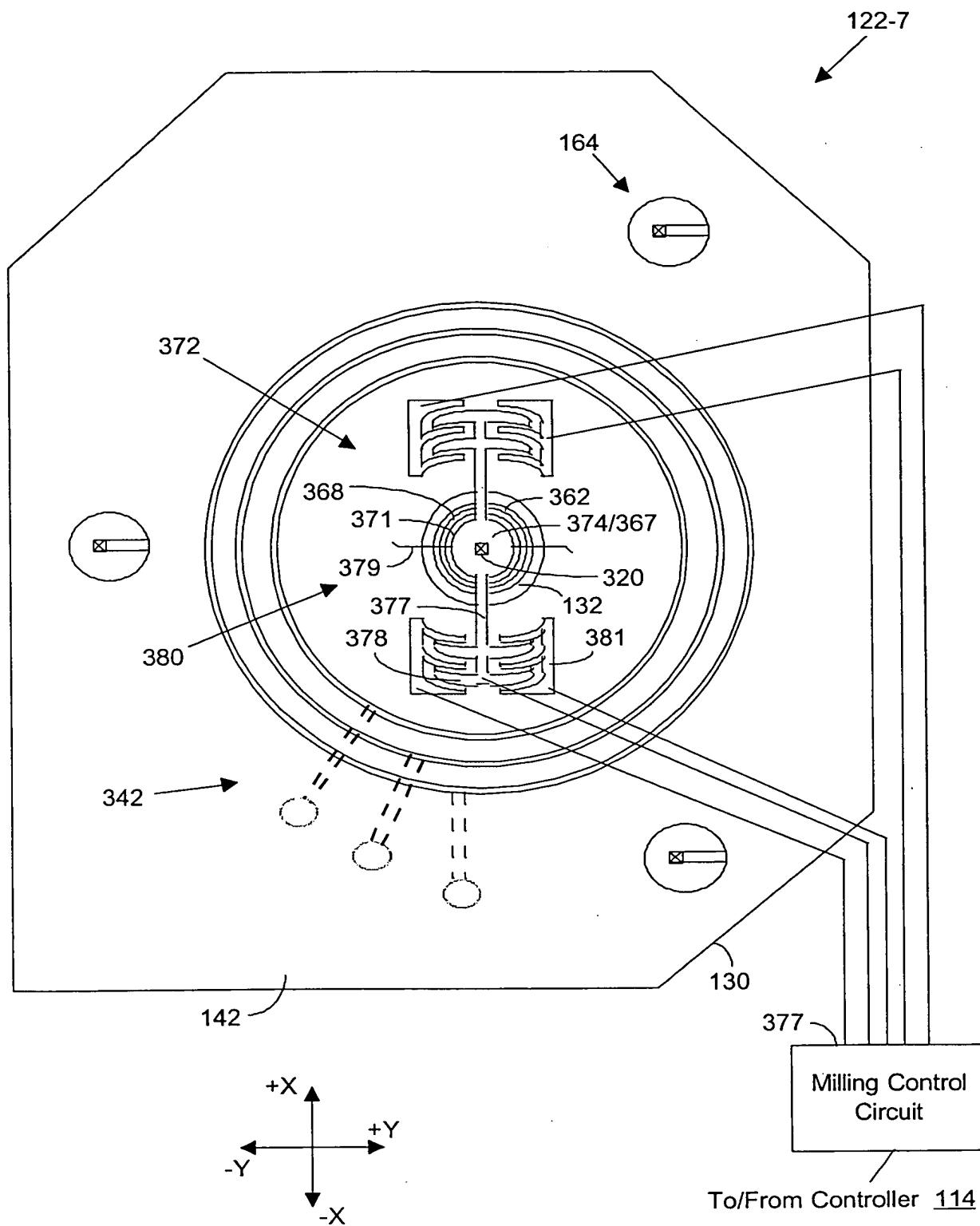


Figure 38

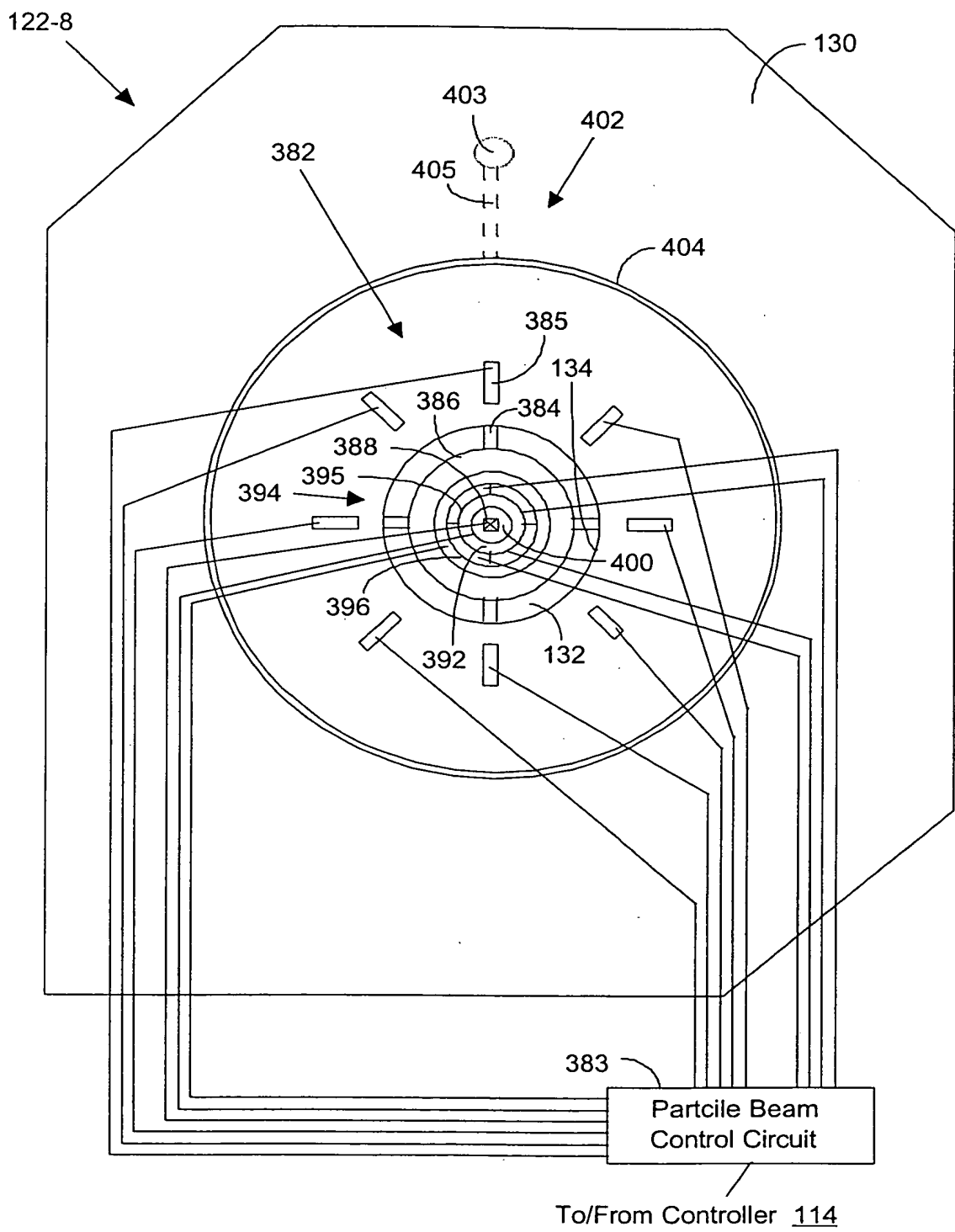


Figure 40

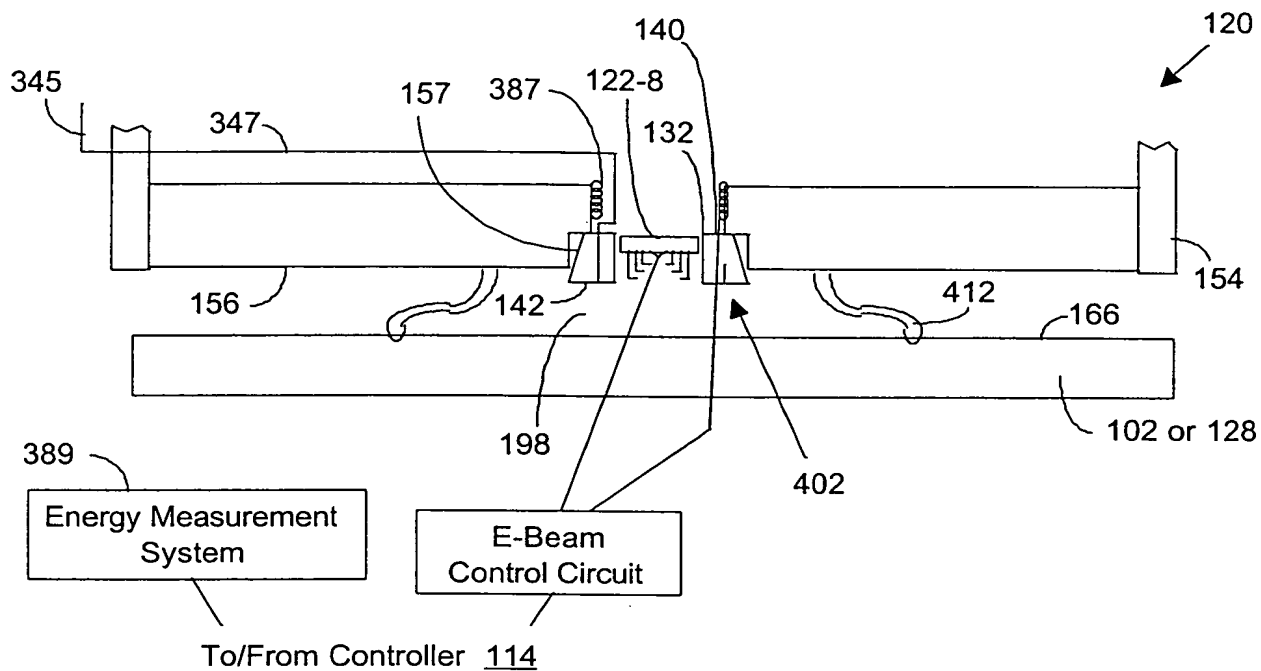


Figure 42

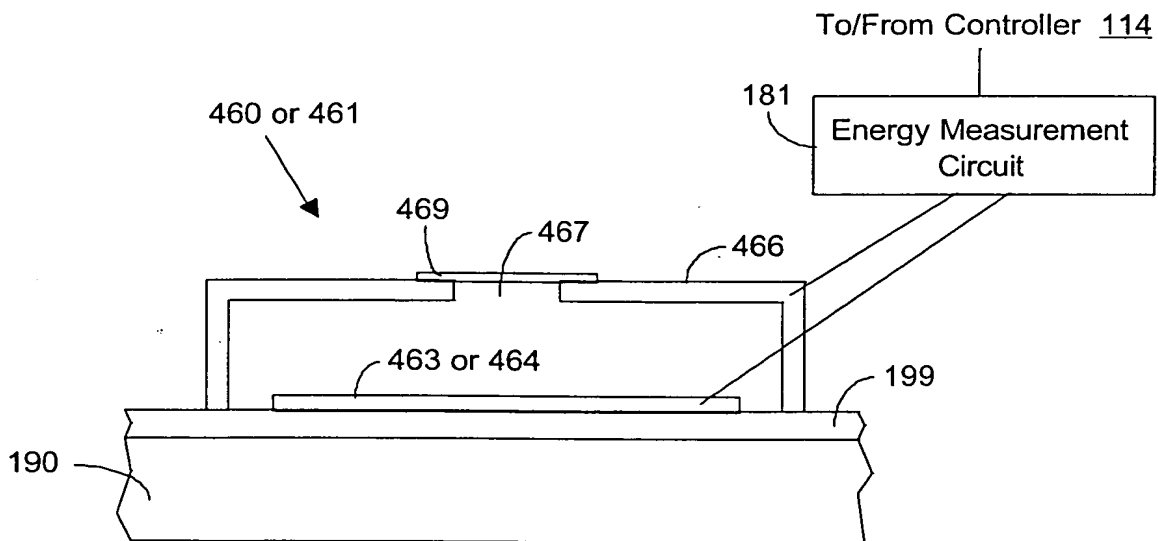


Figure 52

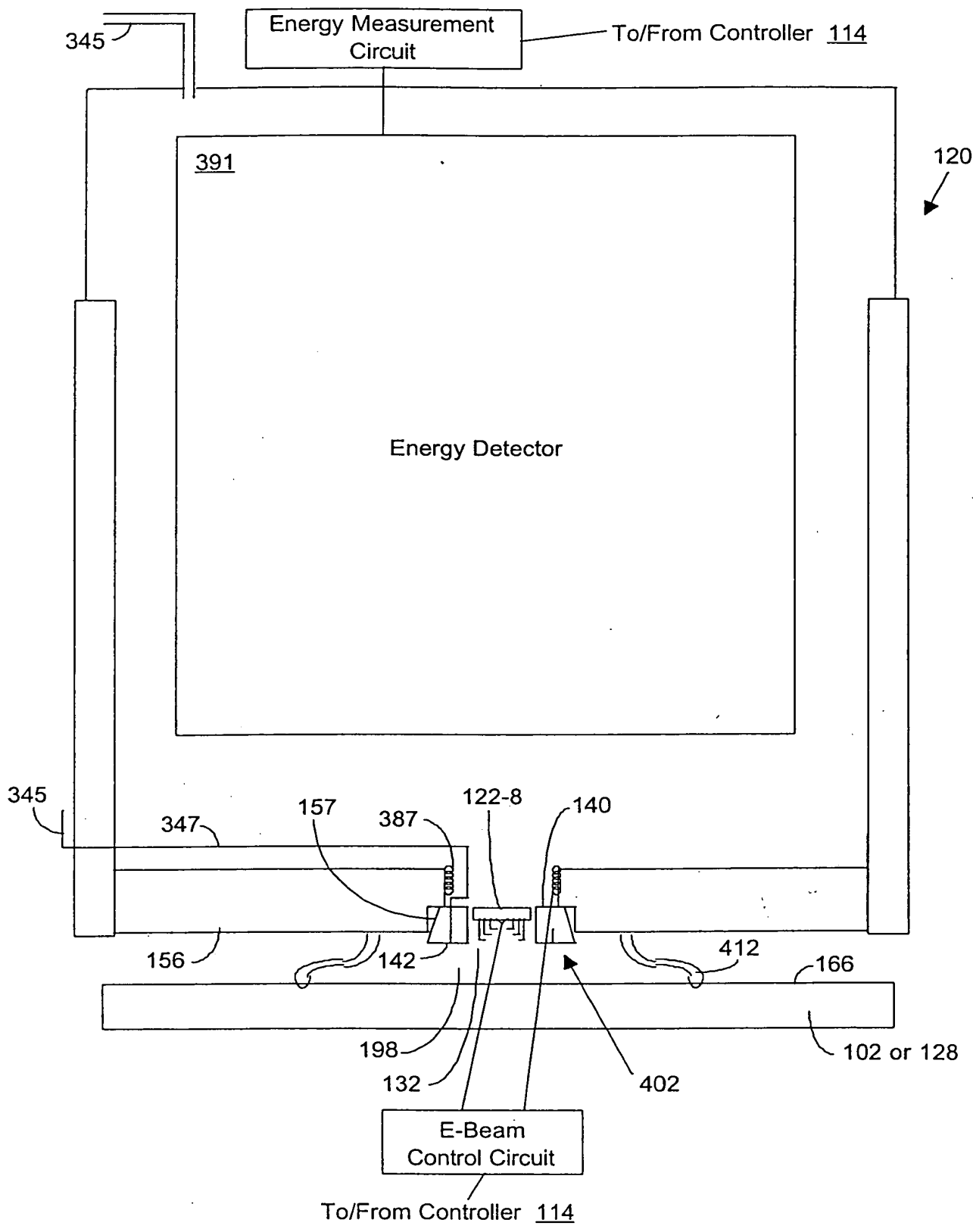


Figure 43

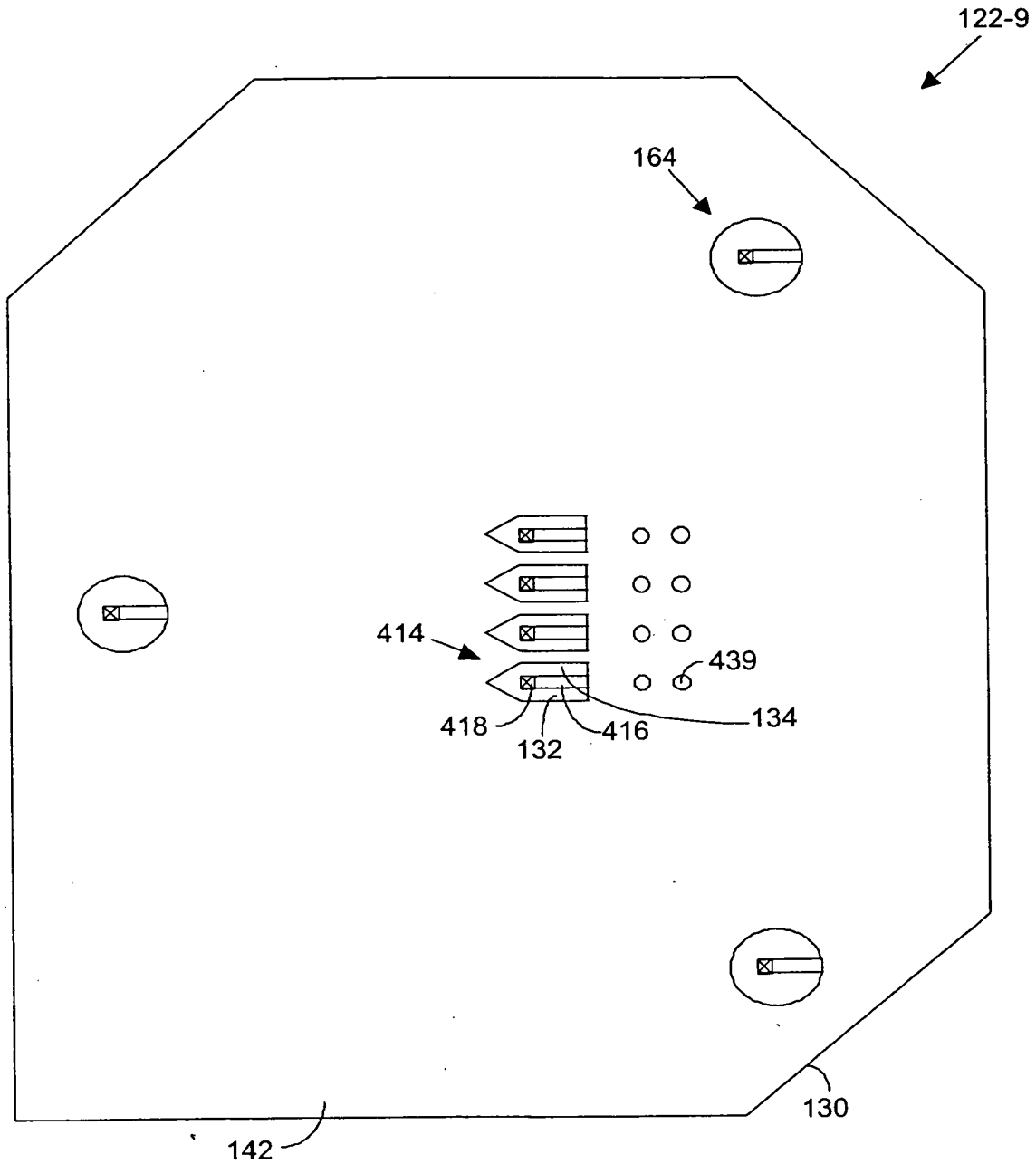


Figure 44

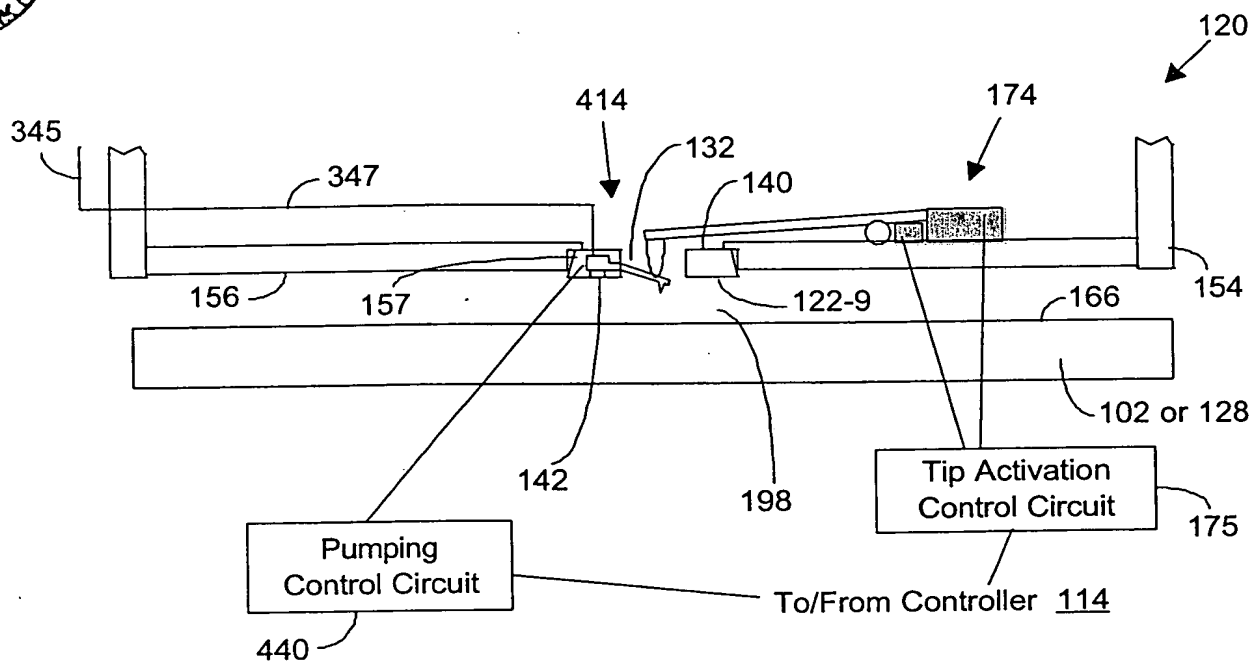


Figure 46

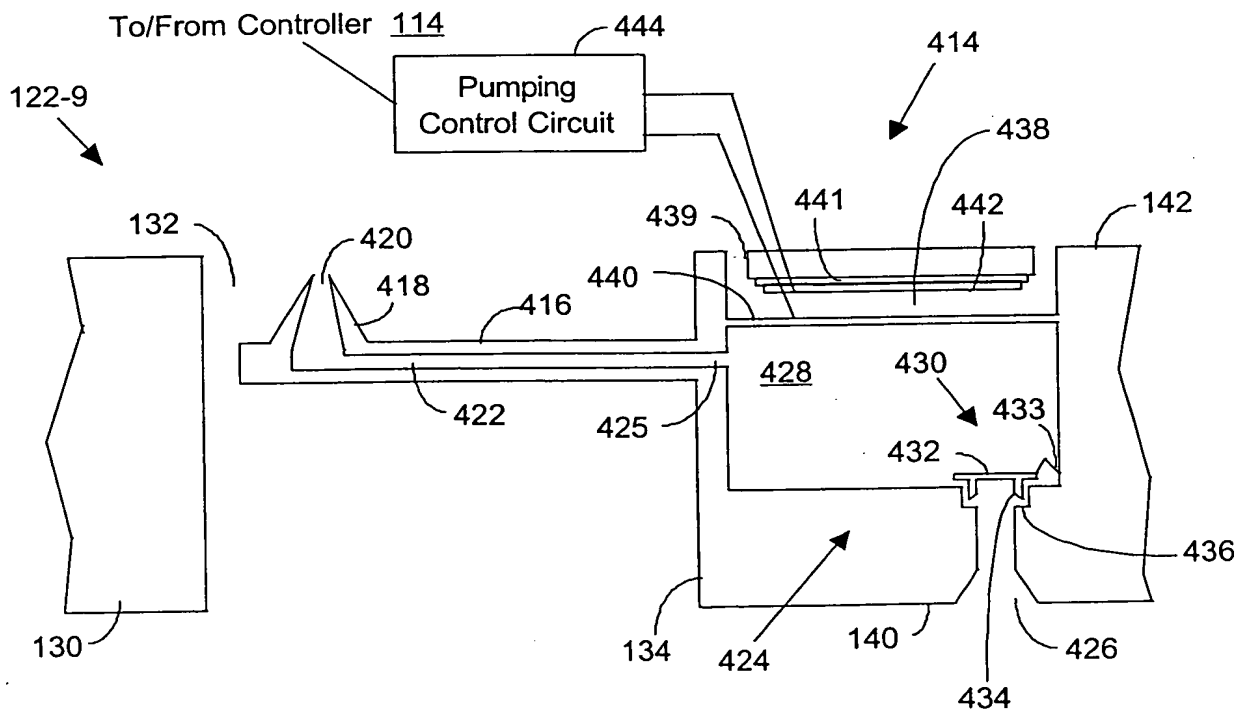
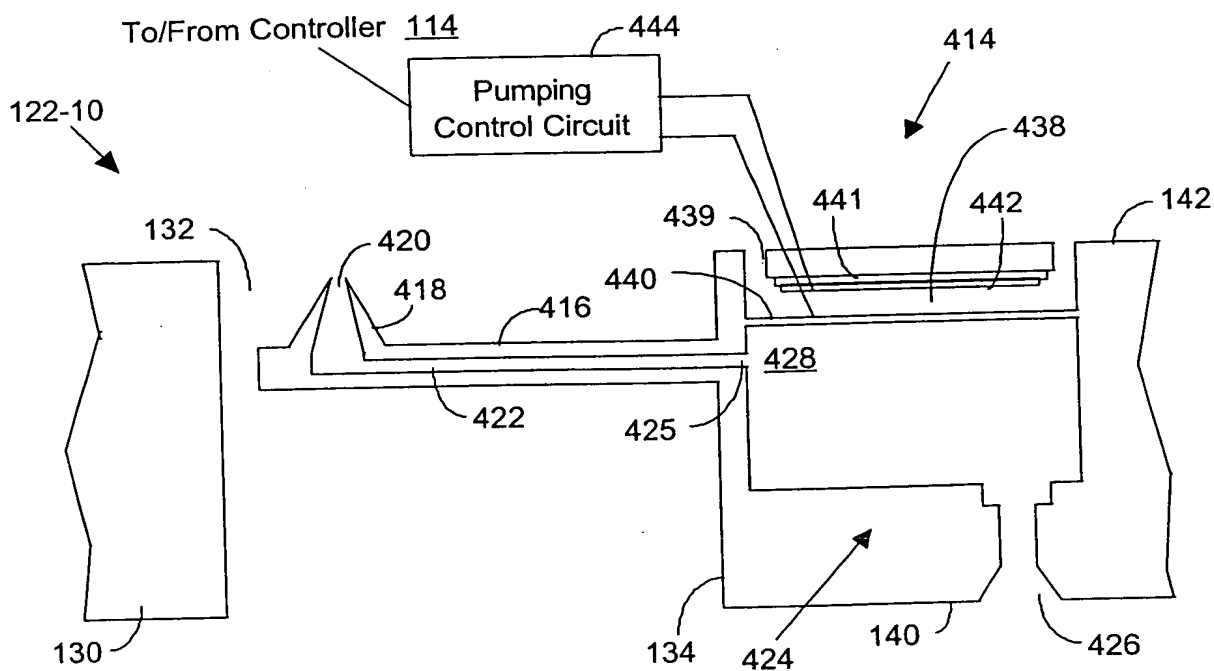
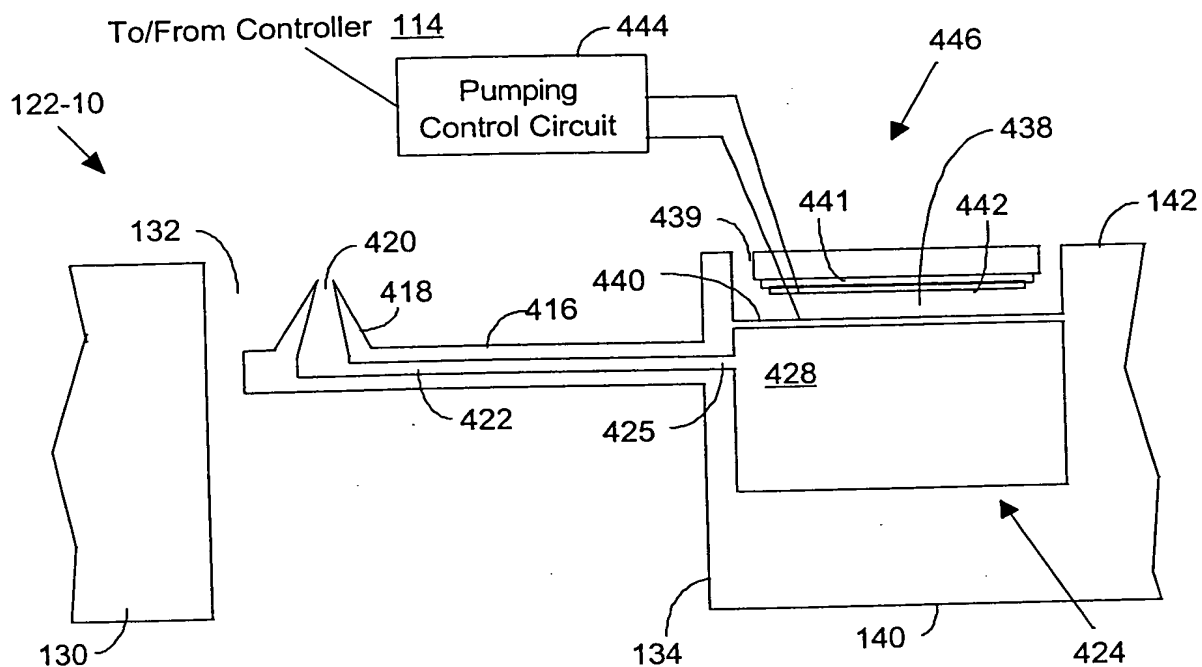
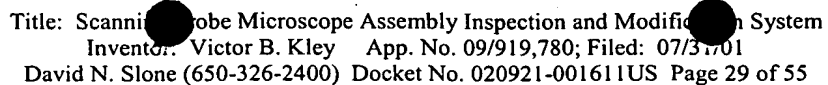


Figure 45



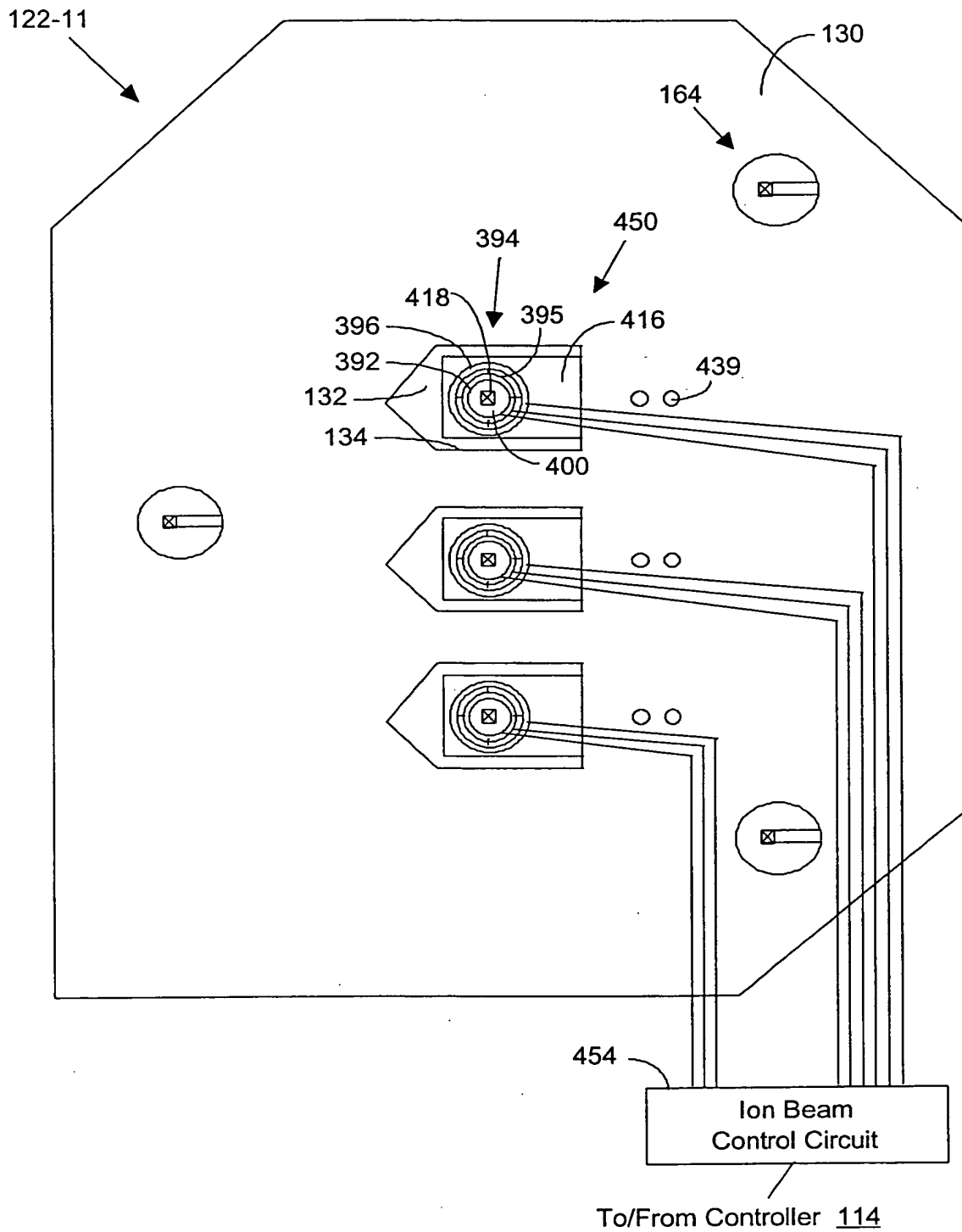


Figure 49

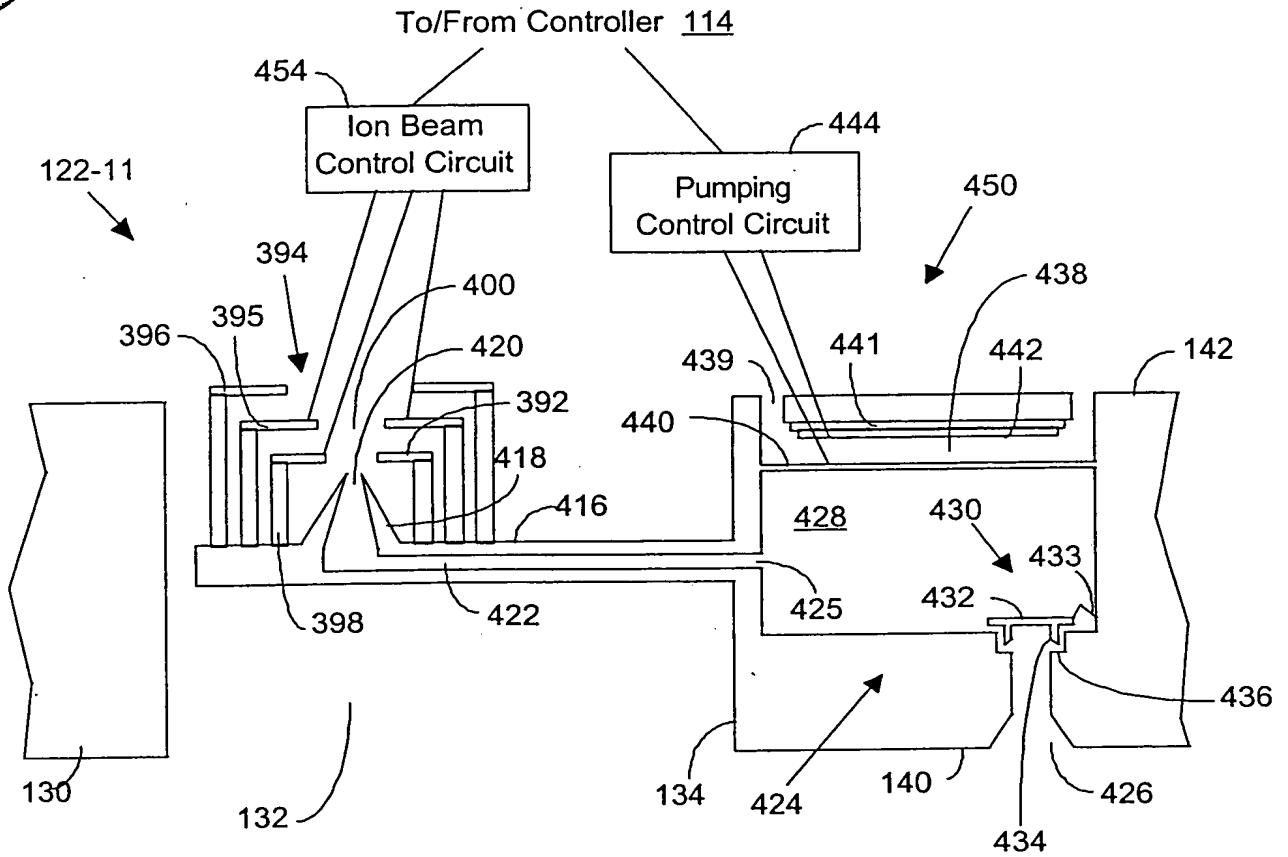


Figure 50

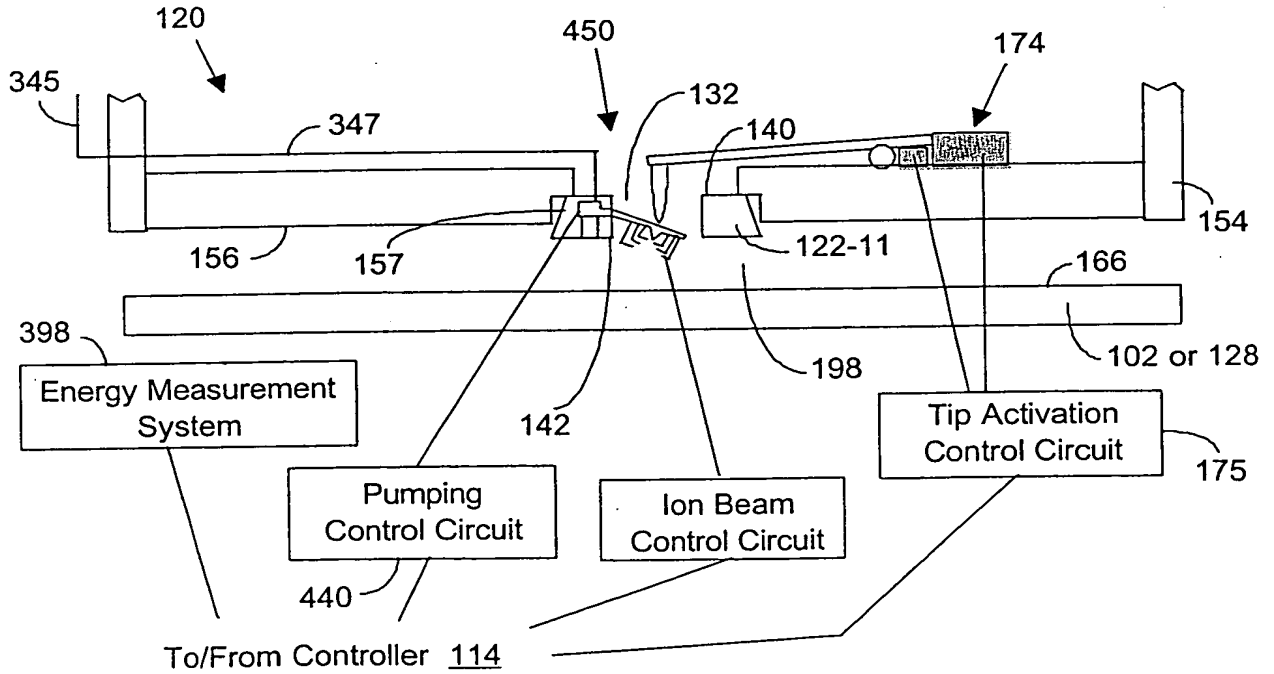


Figure 51

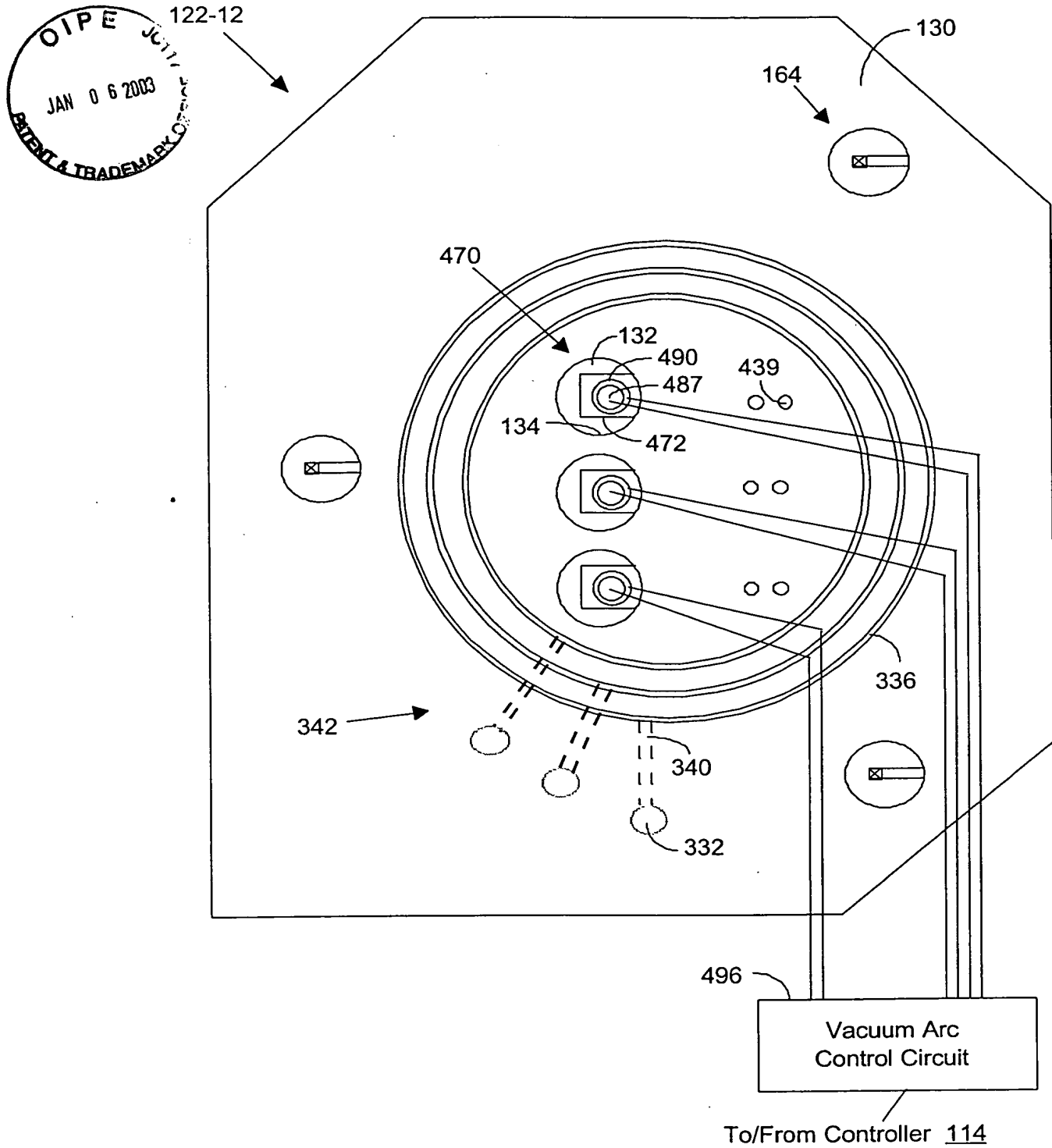
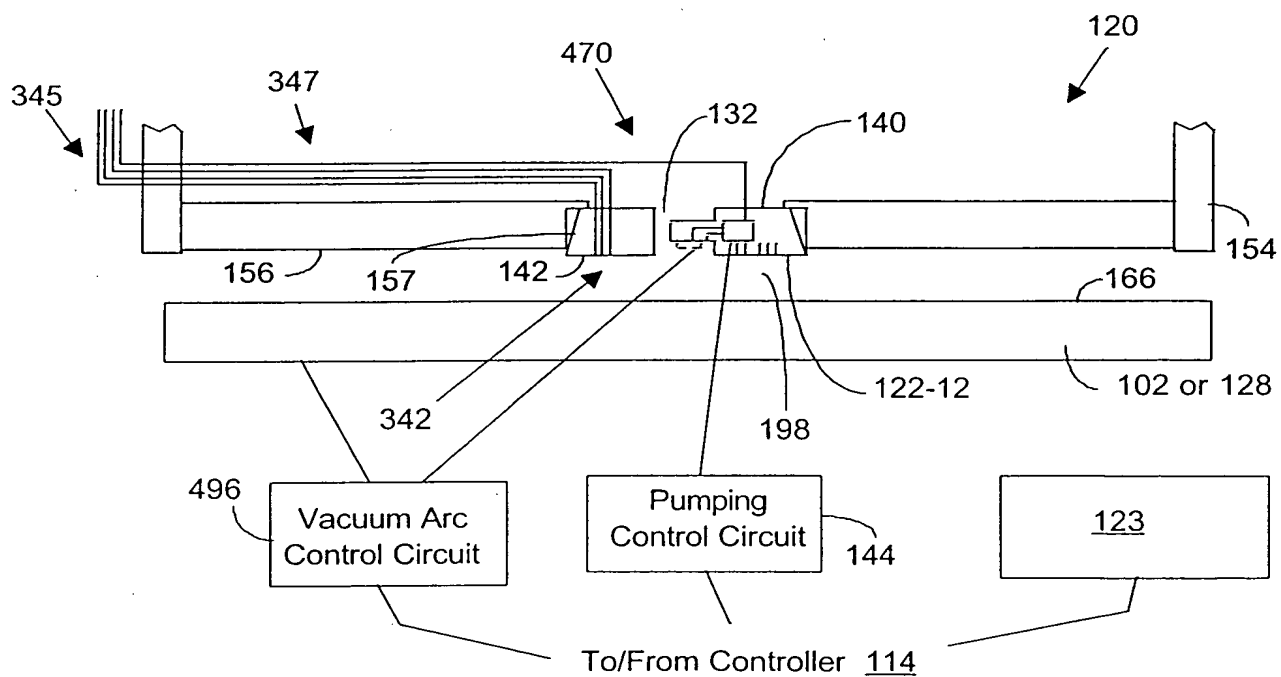
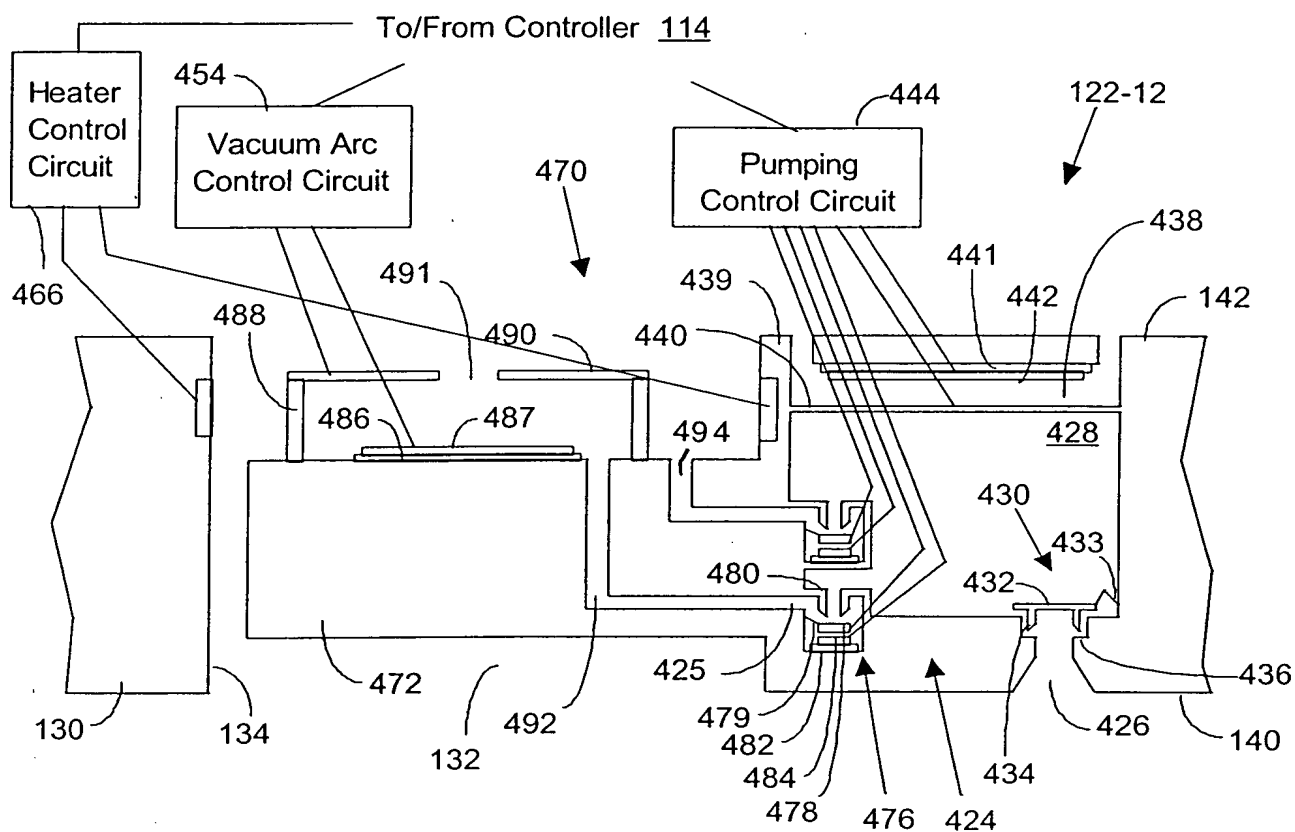
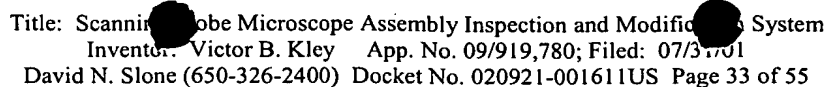


Figure 53



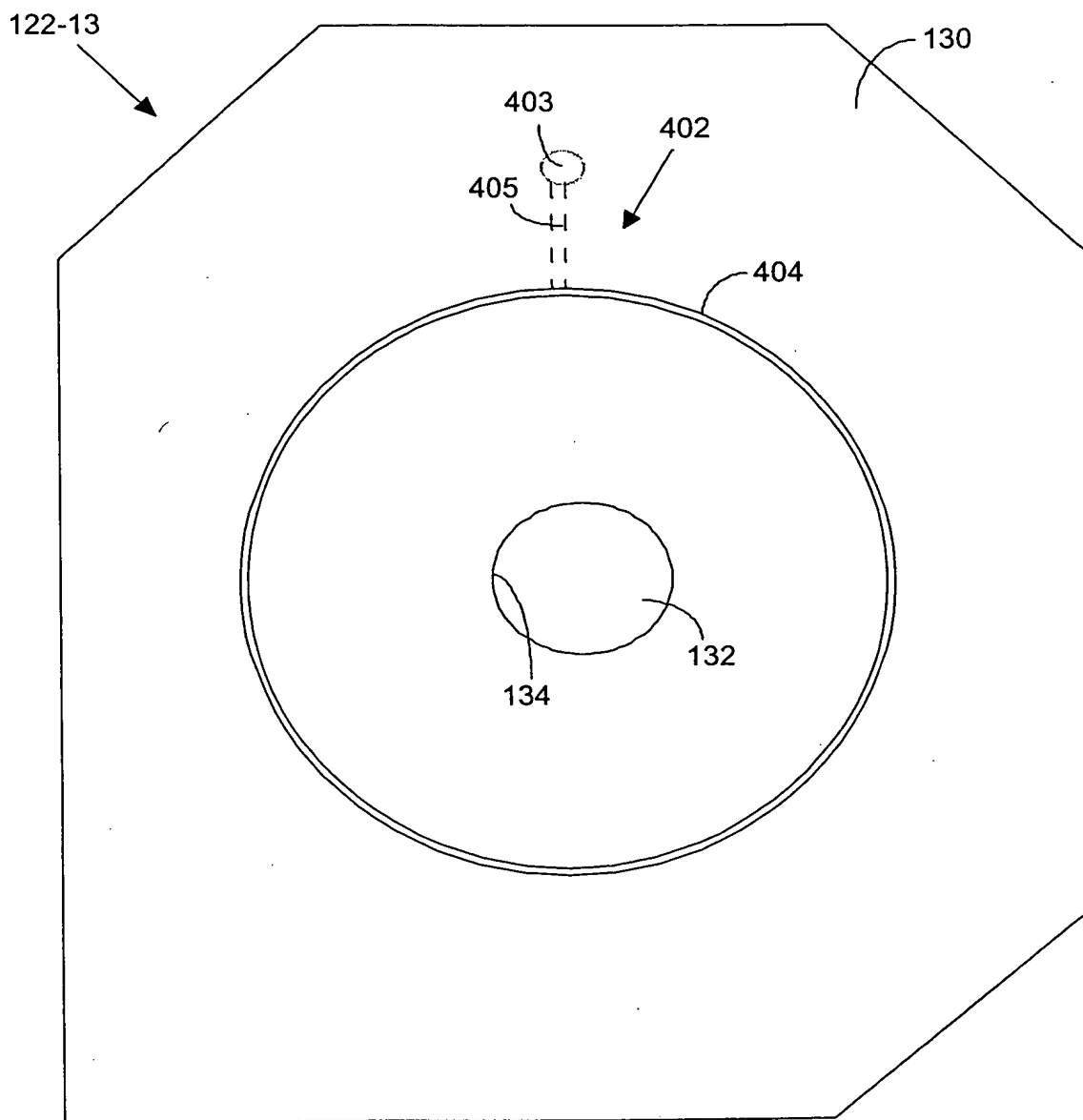
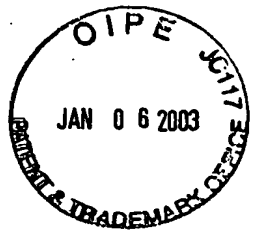
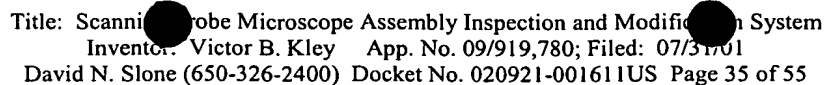


Figure 56



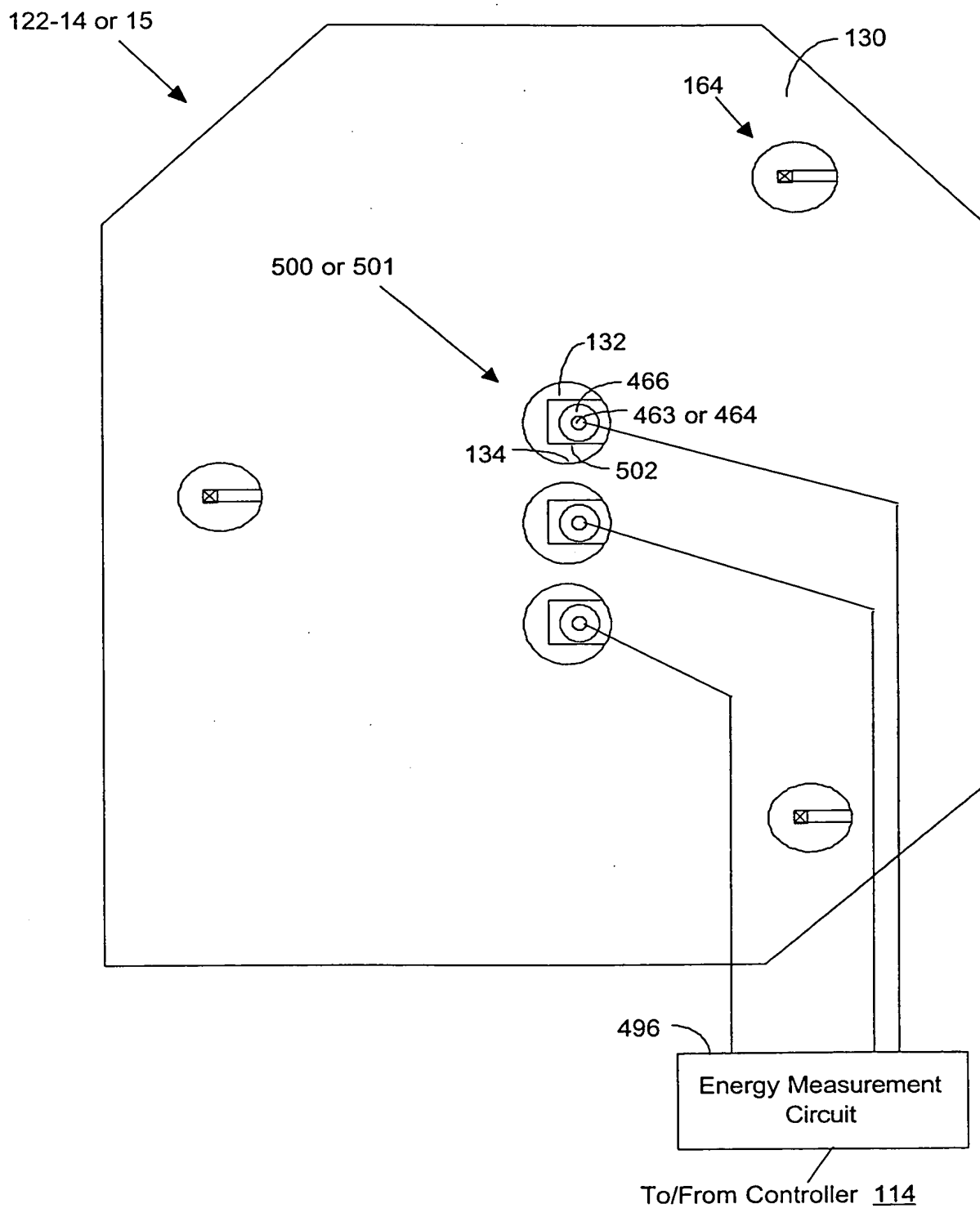
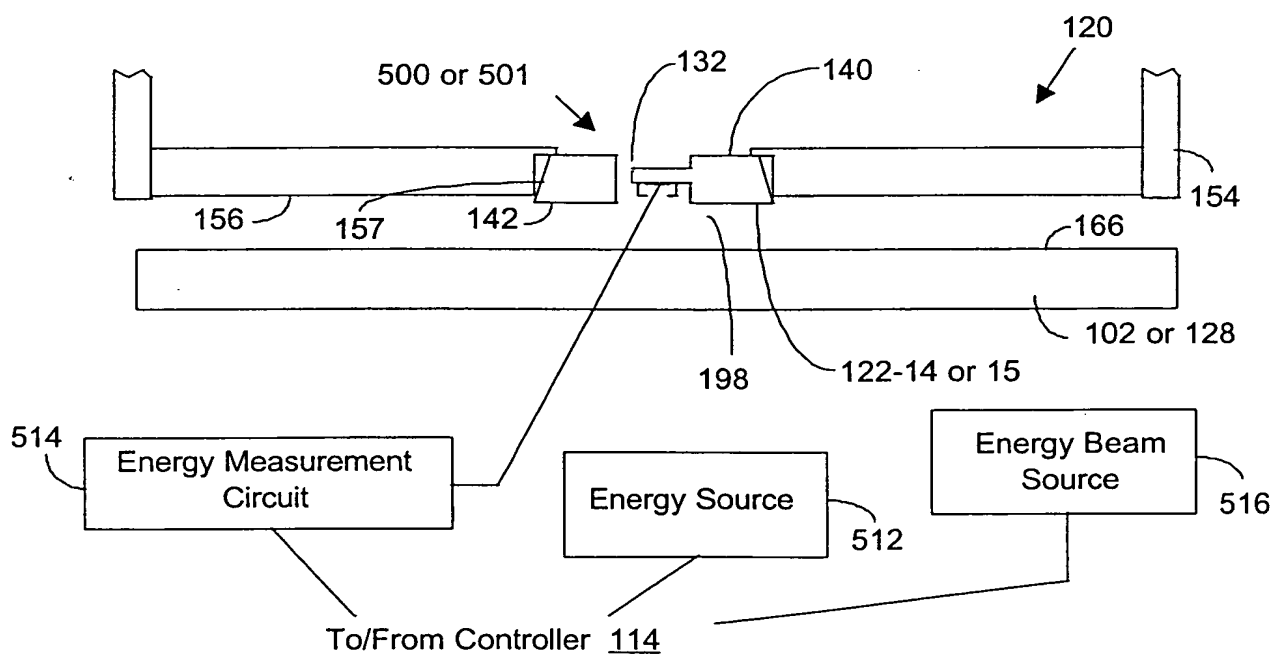
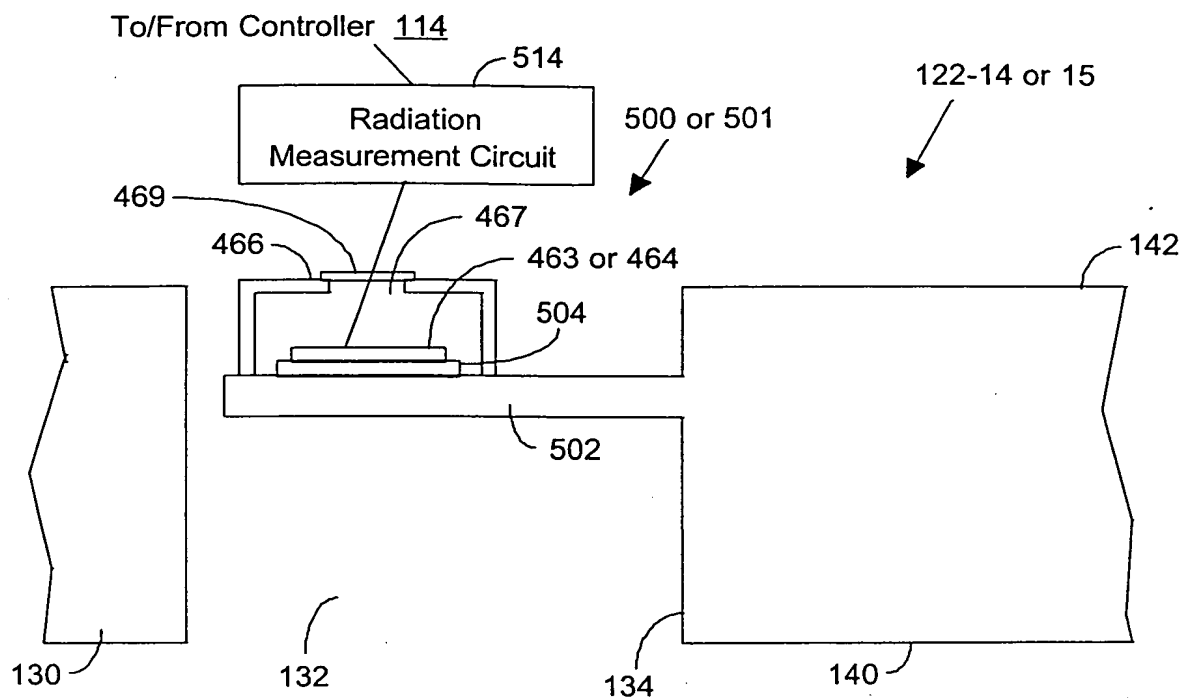
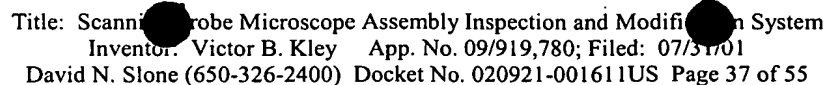


Figure 58



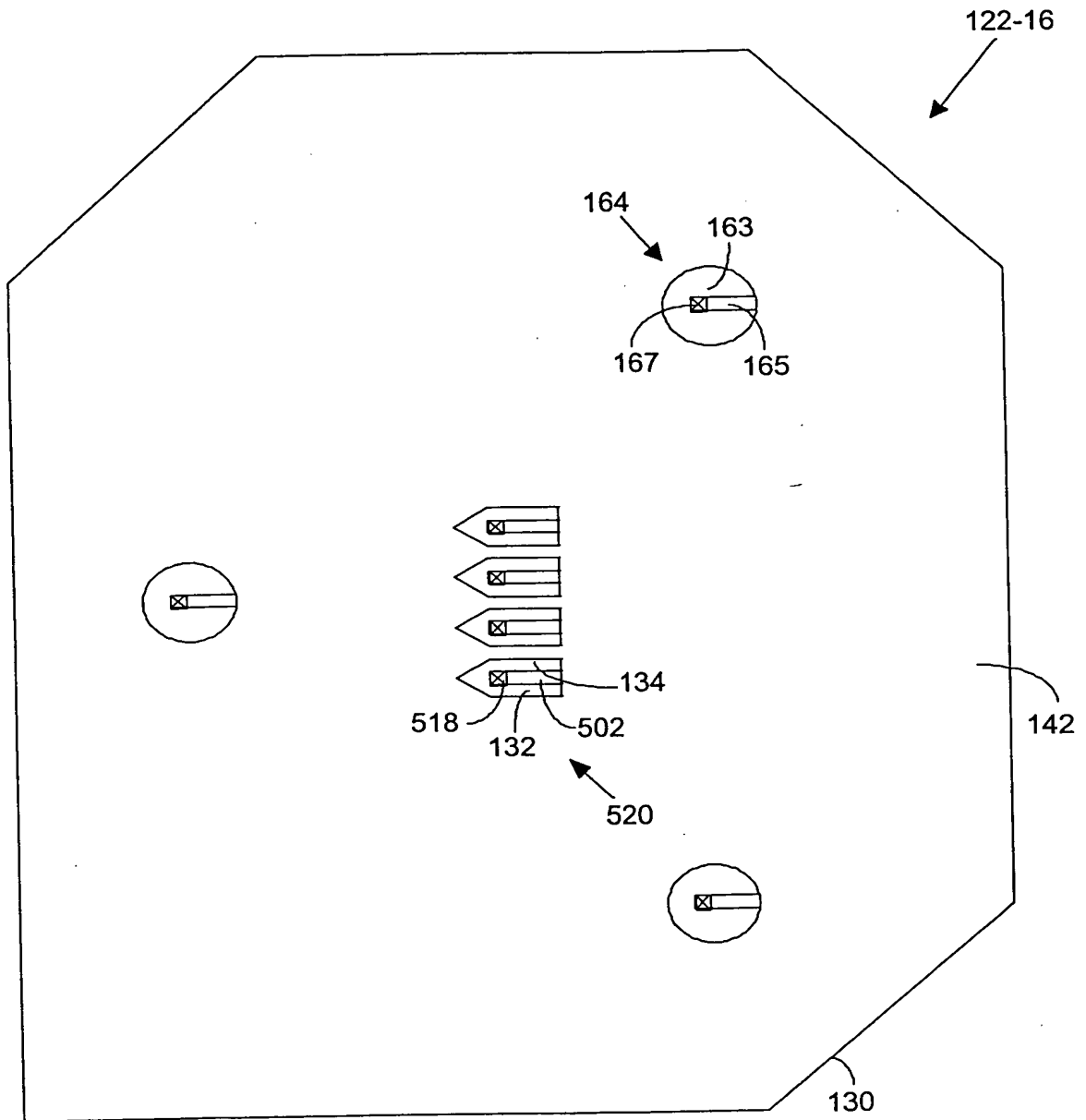


Figure 61

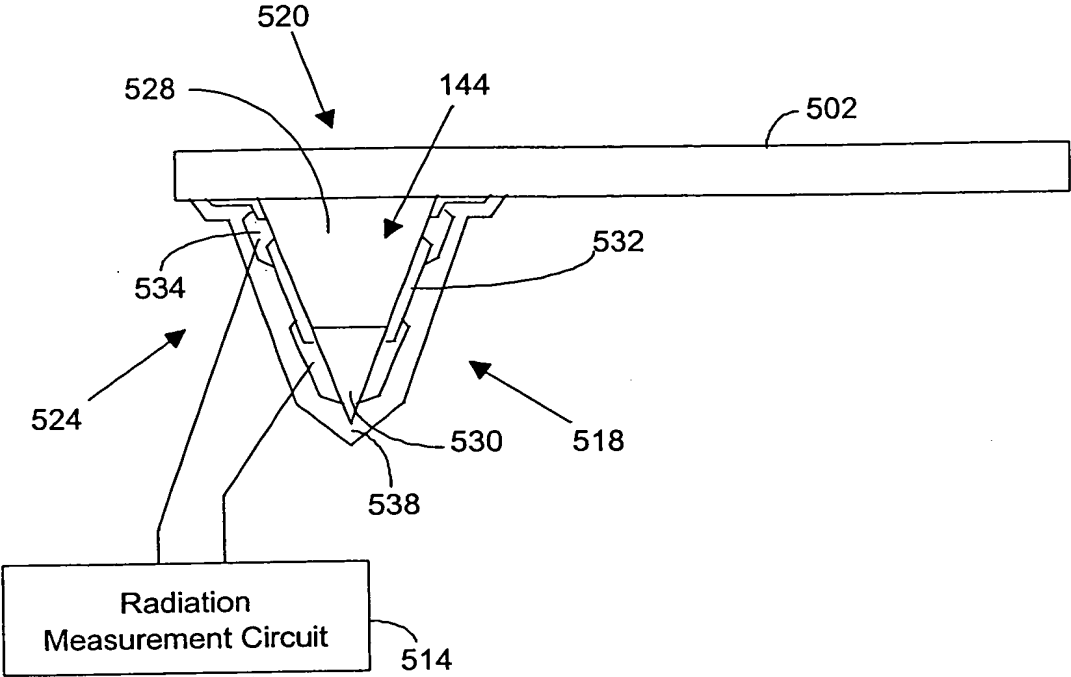
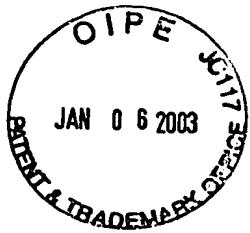


Figure 62

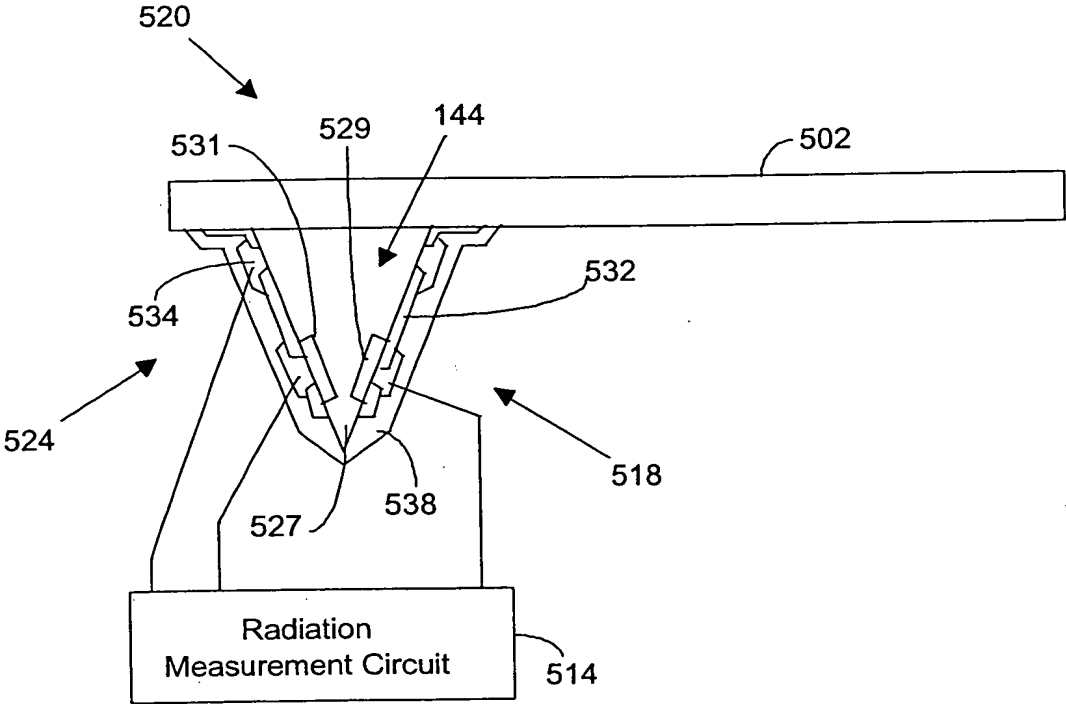


Figure 63

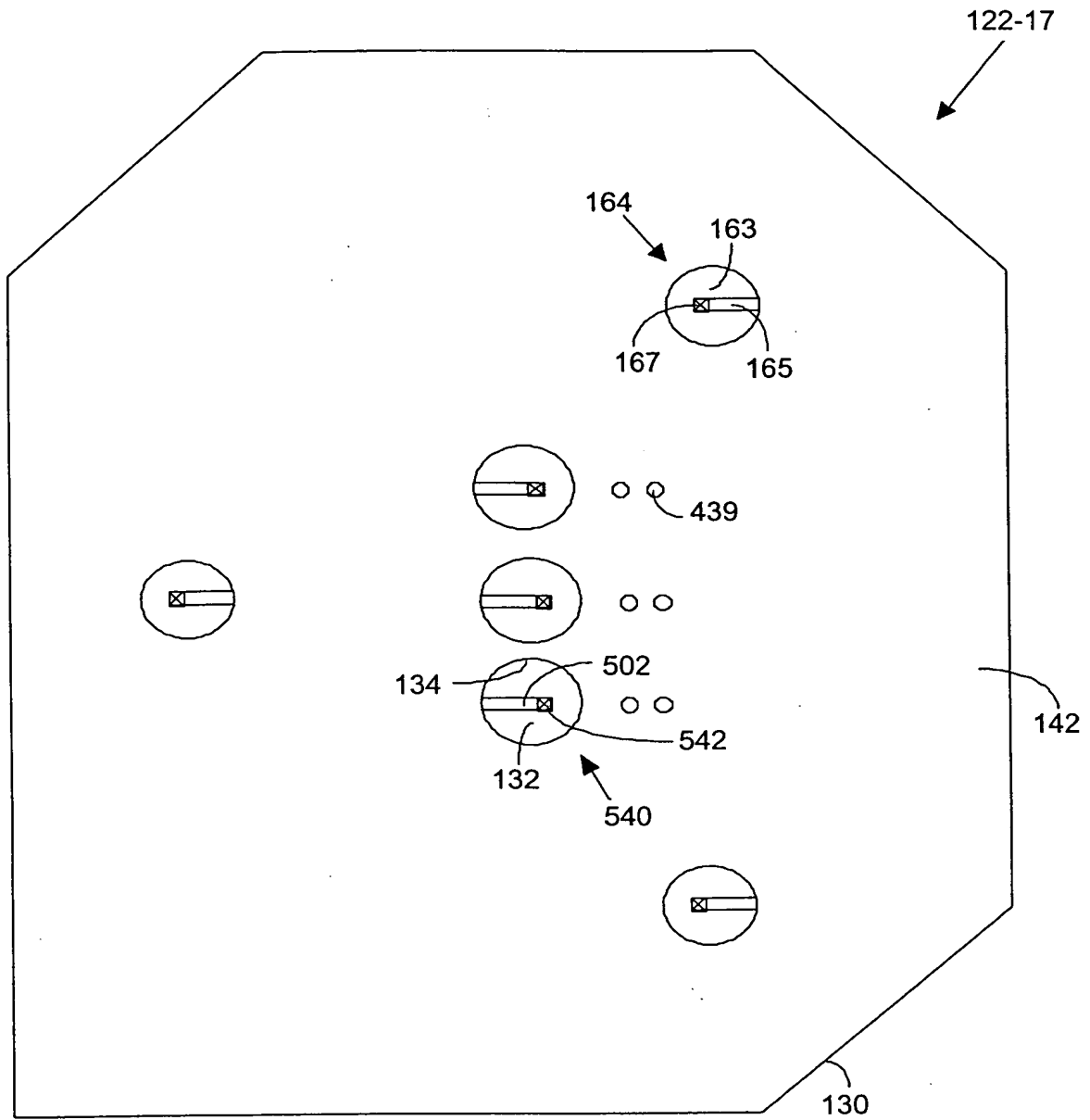
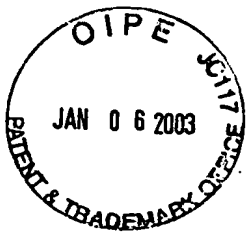


Figure 64

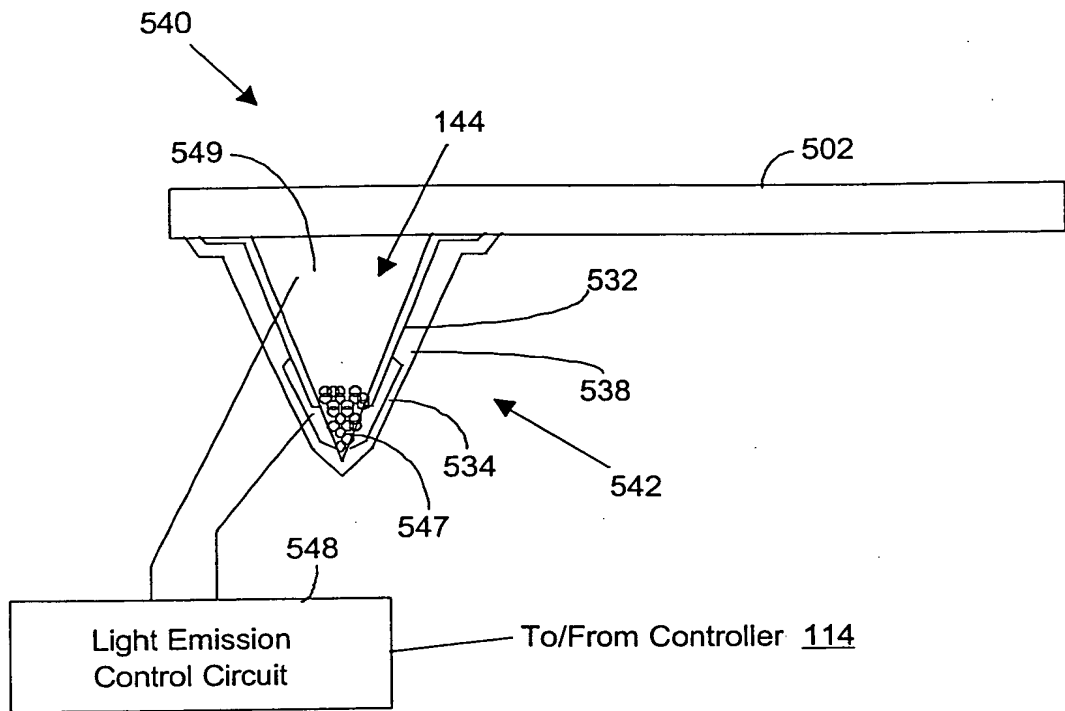


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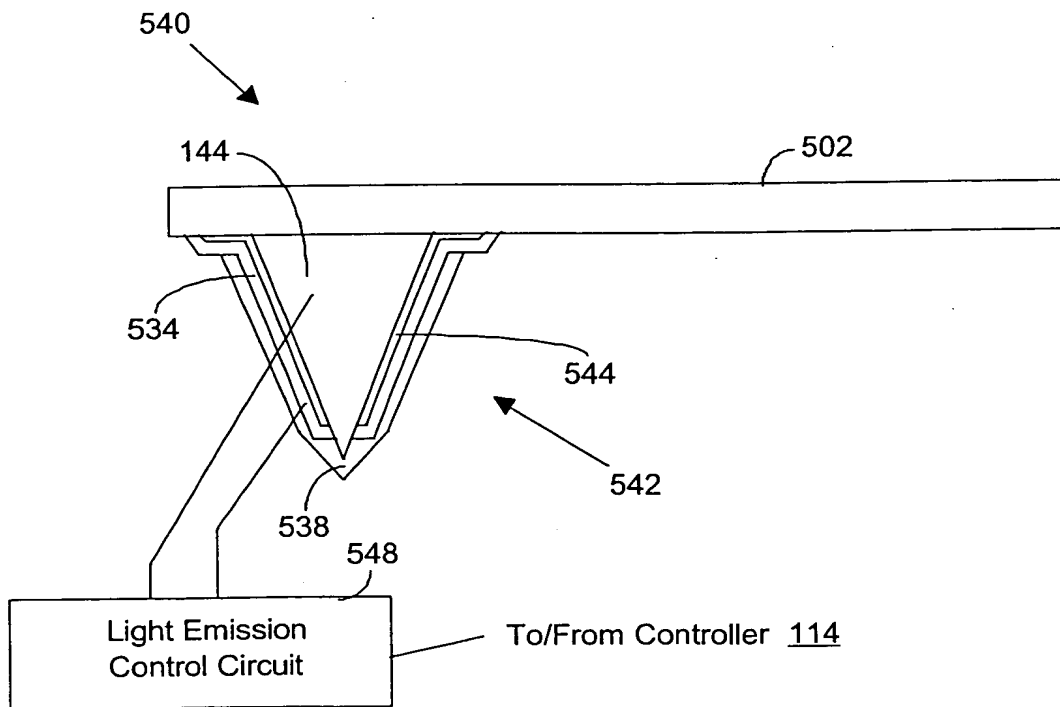
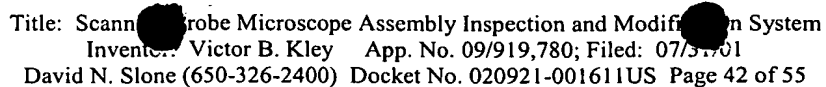


Figure 65



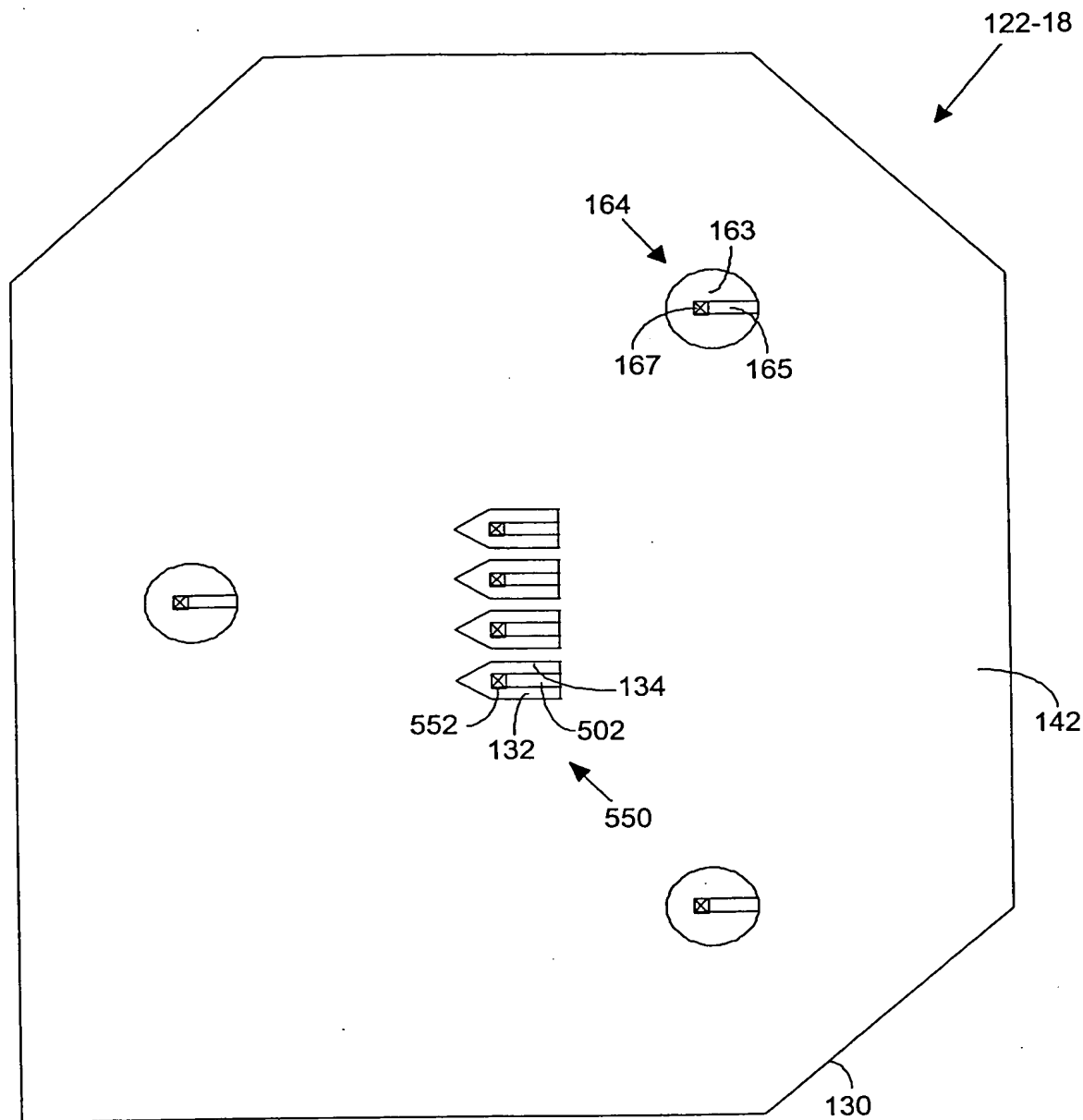


Figure 68

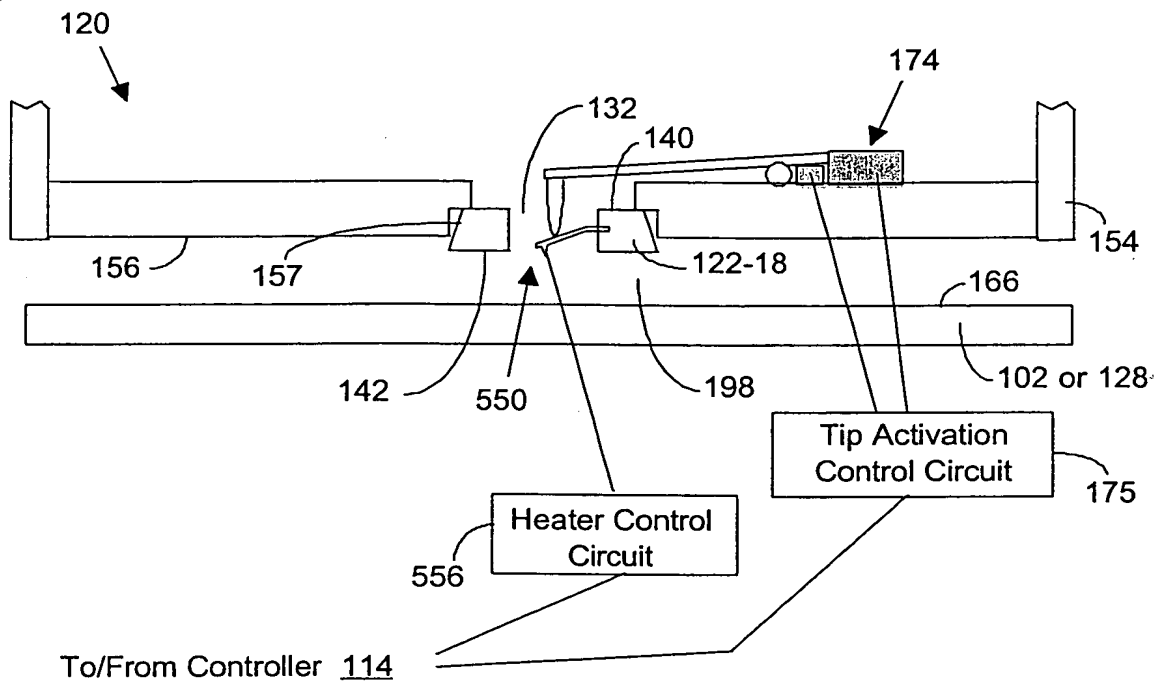


Figure 70

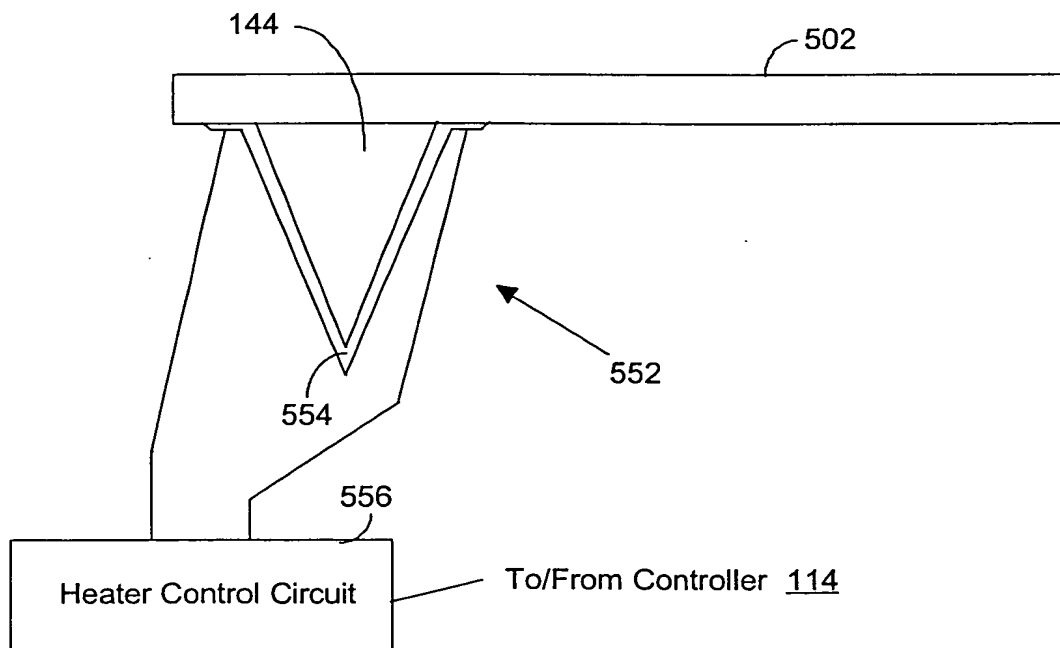


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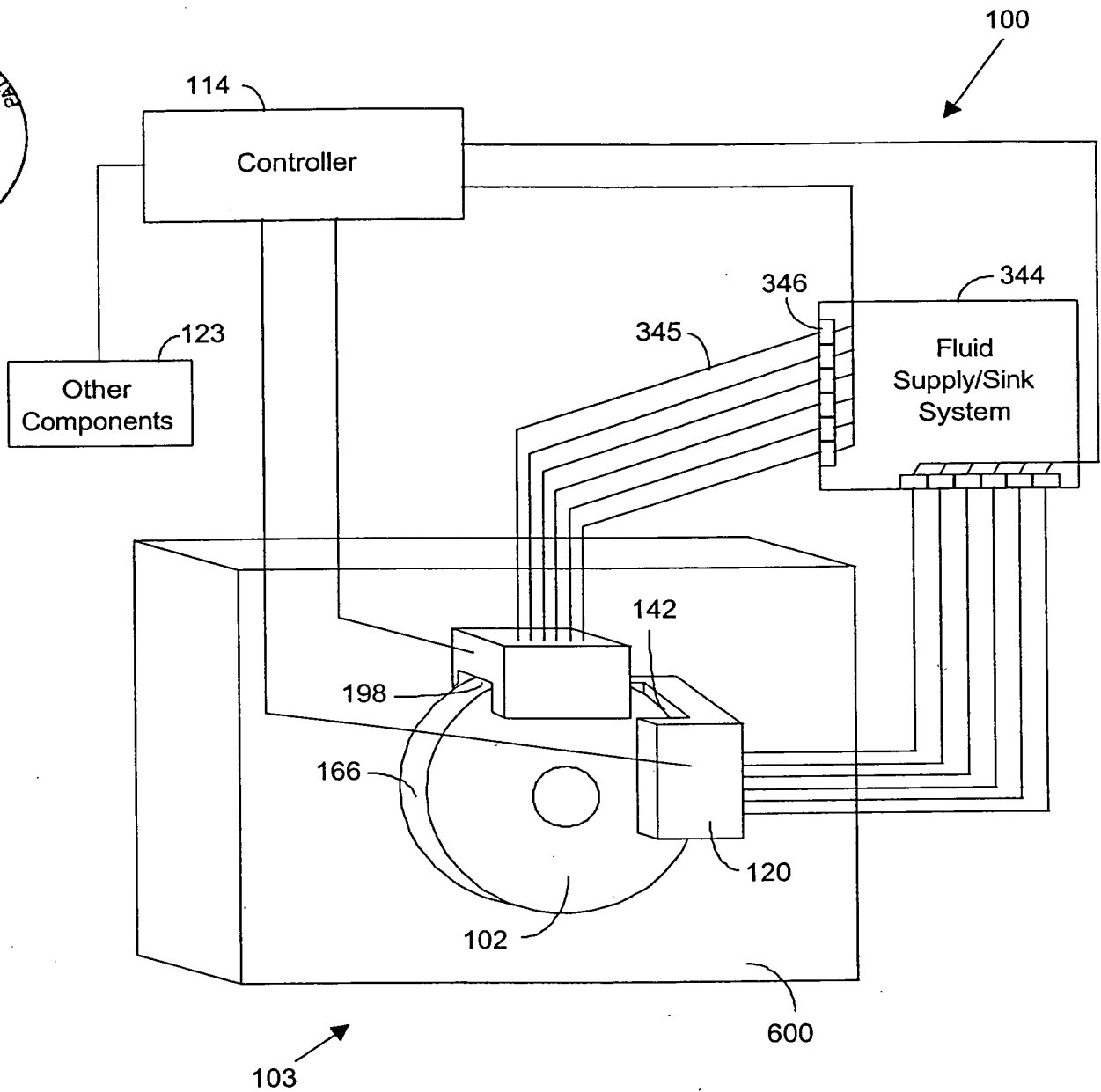
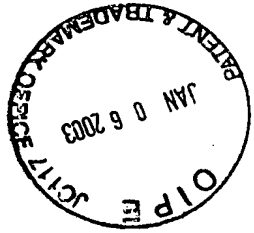
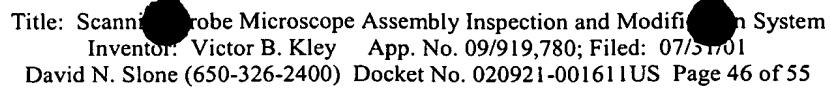


Figure 71



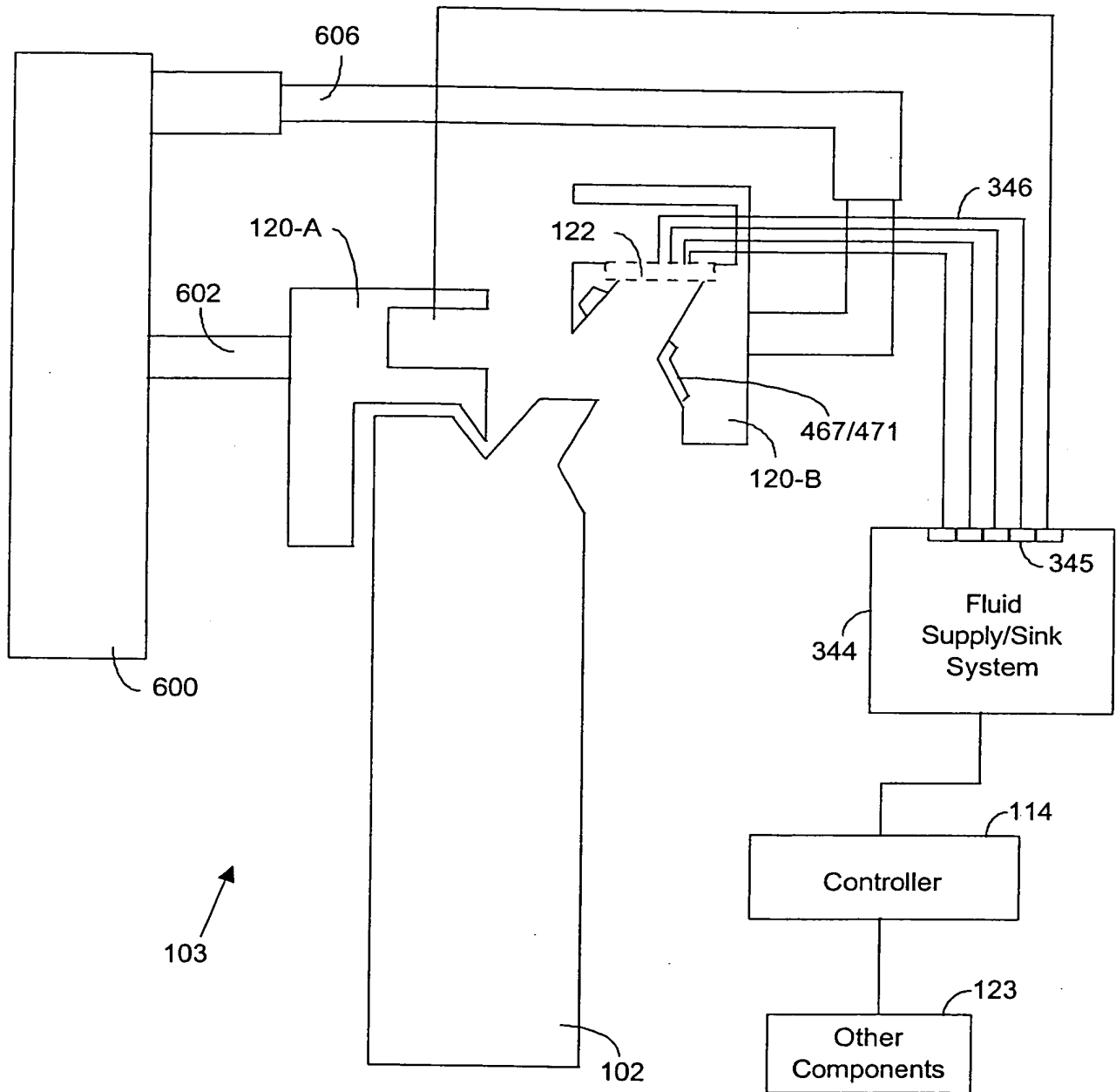


Figure 73

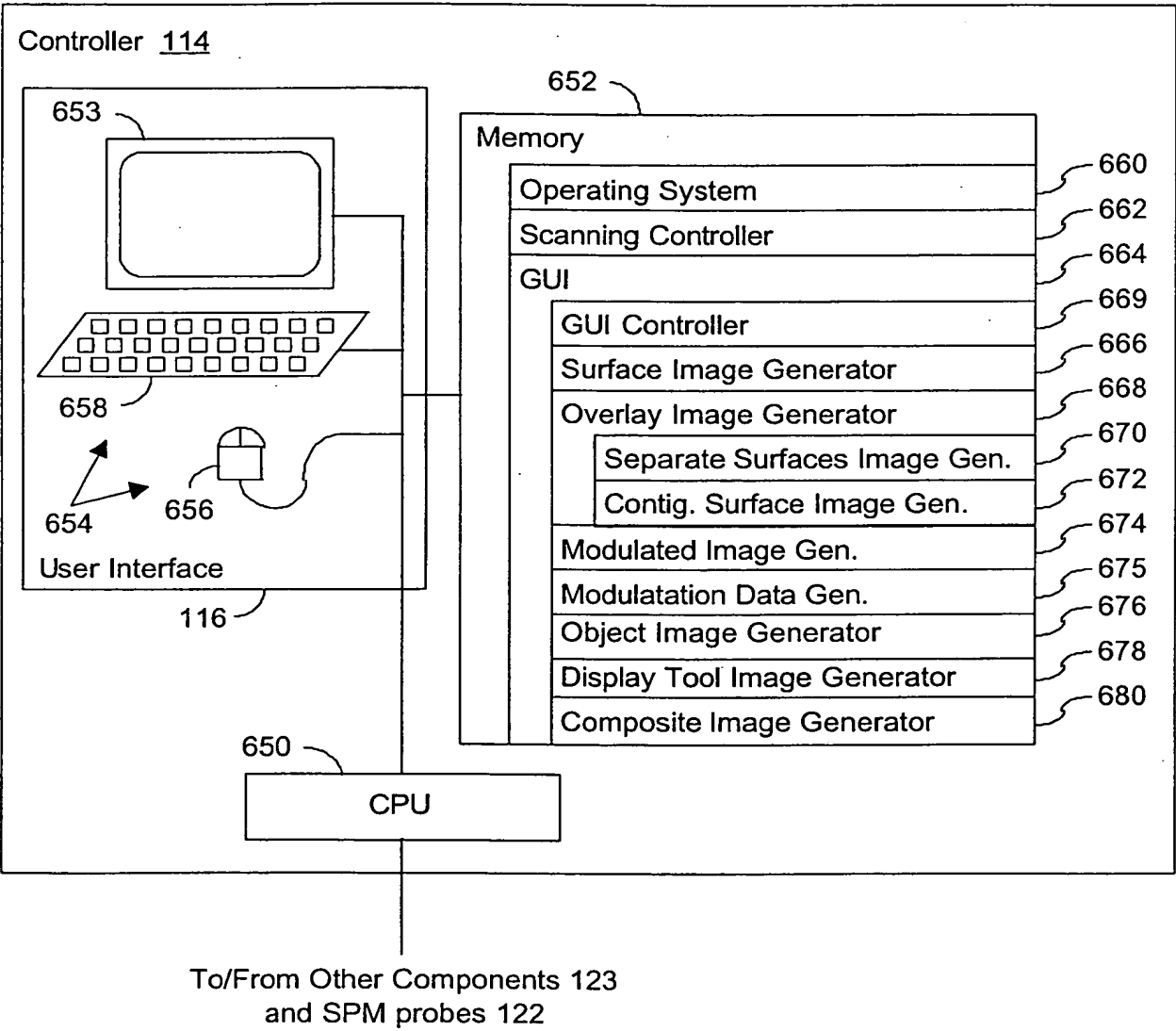


Figure 74

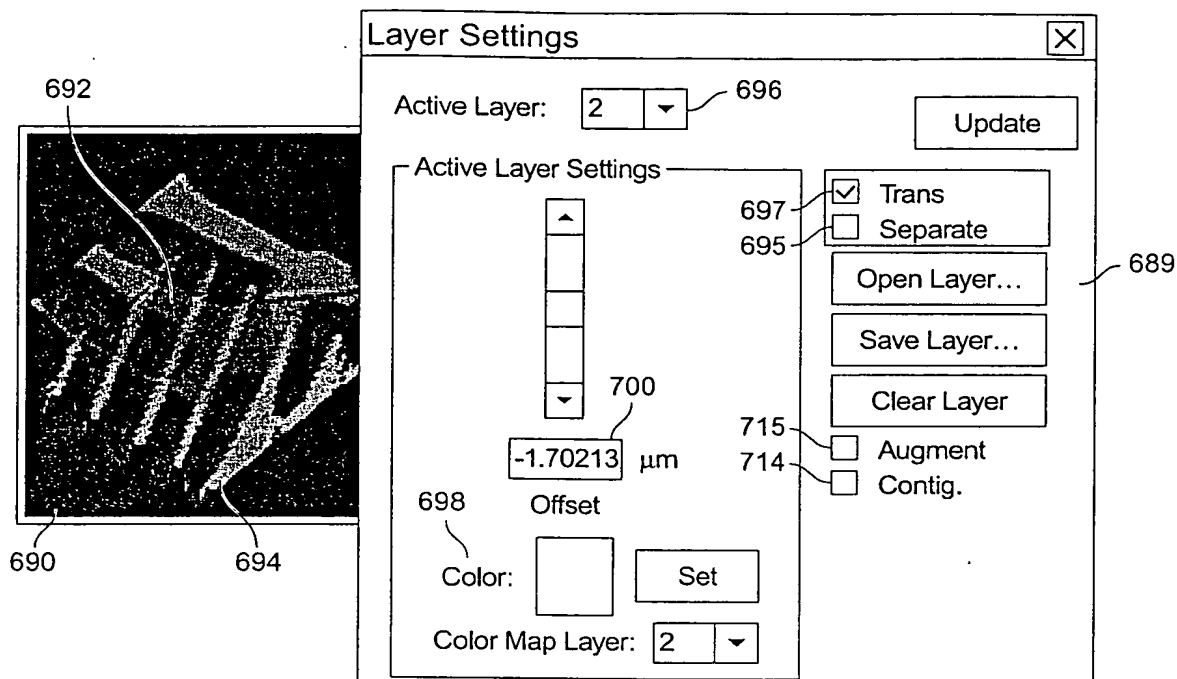


Figure 75

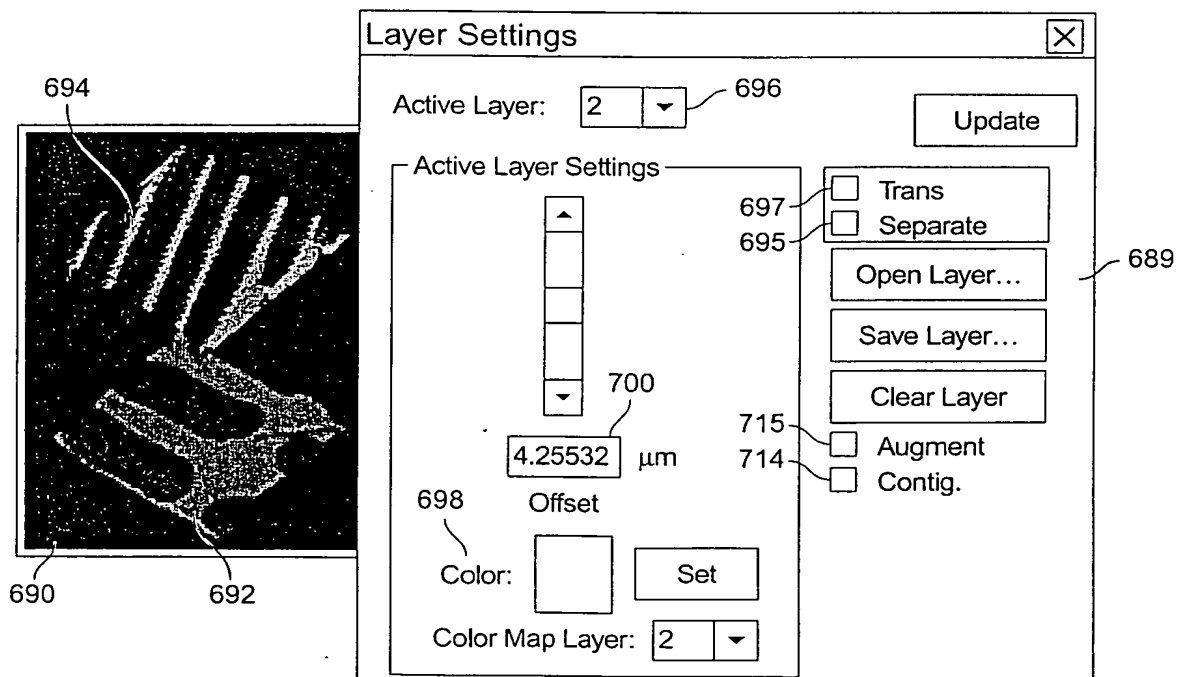


Figure 76

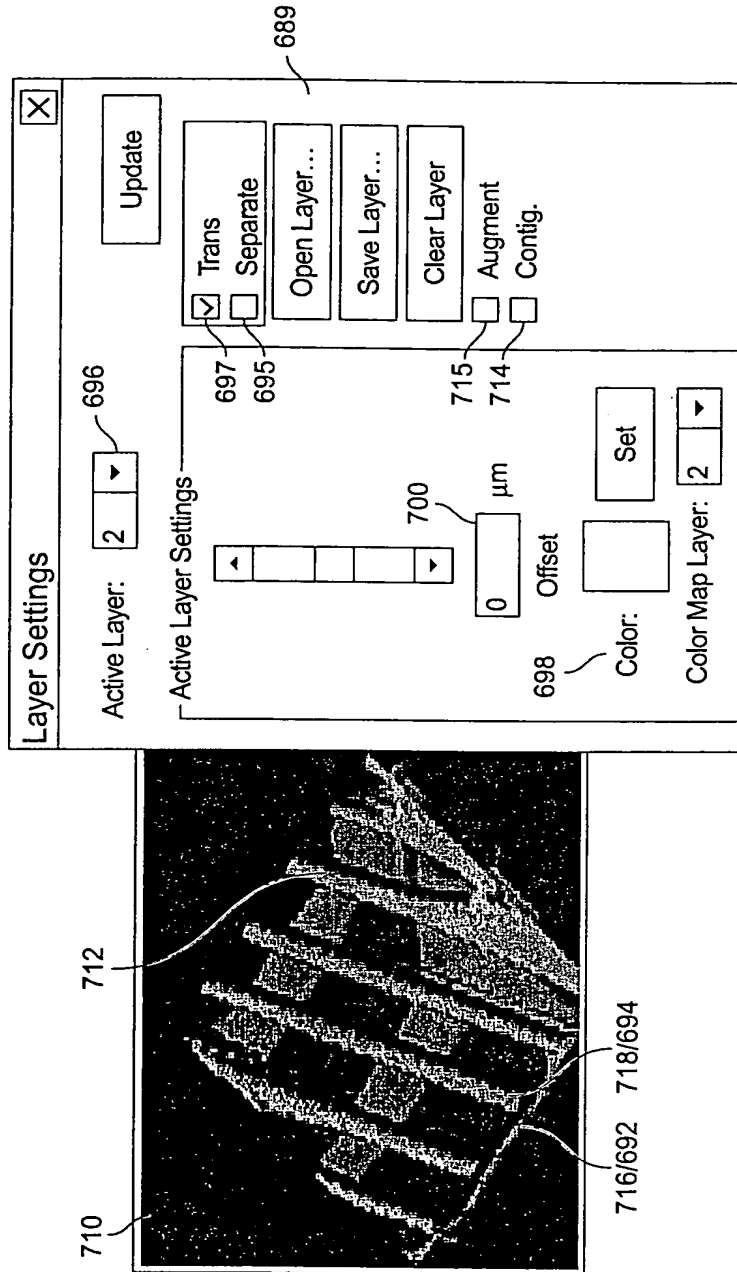


Figure 77



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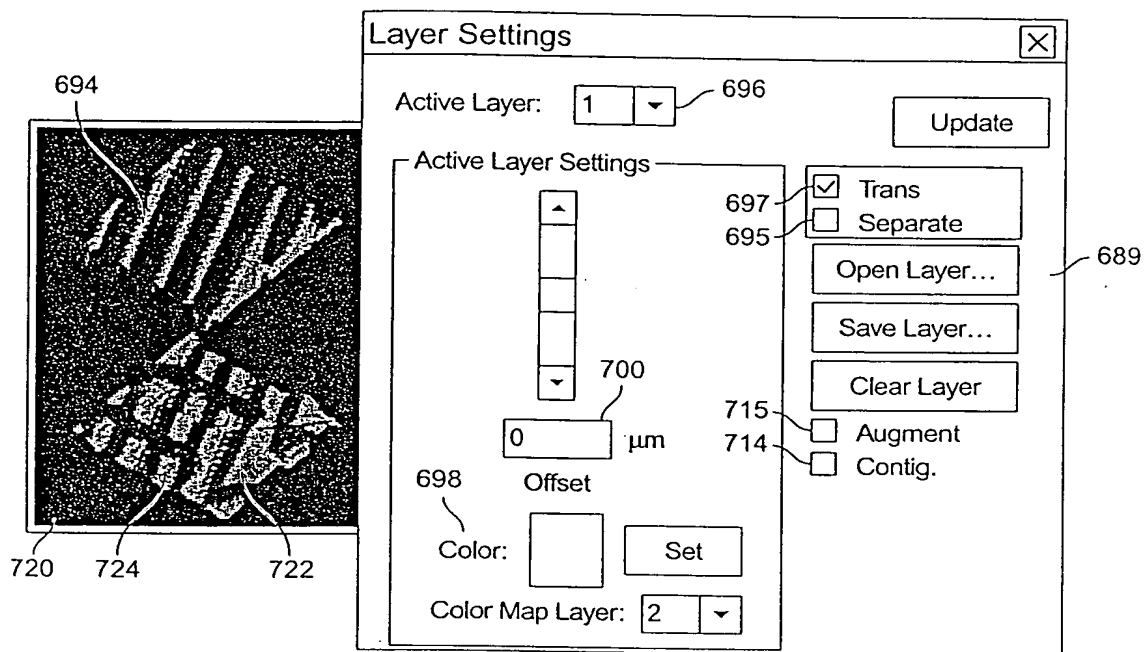


Figure 78

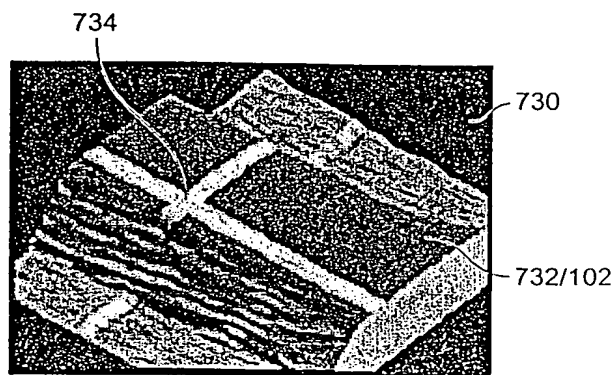


Figure 79

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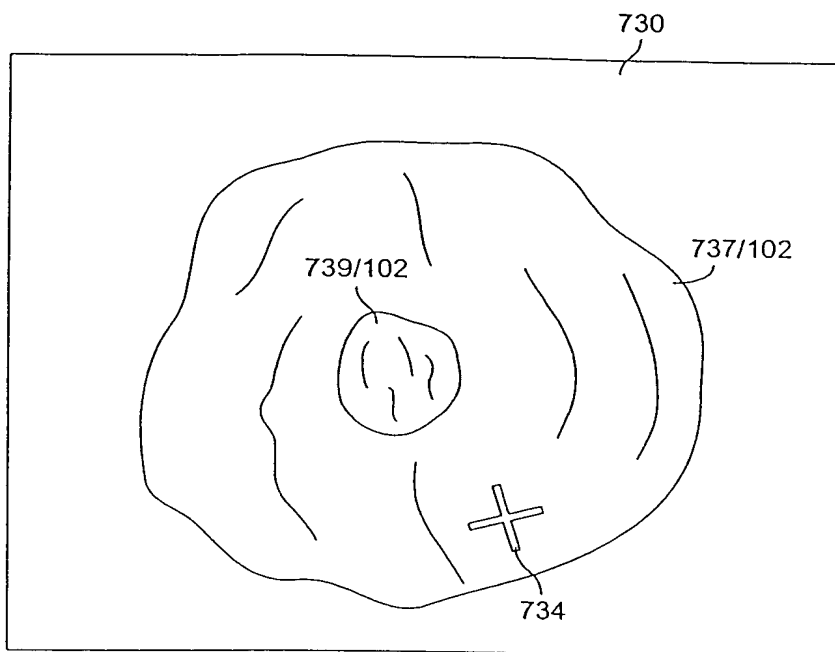


Figure 80

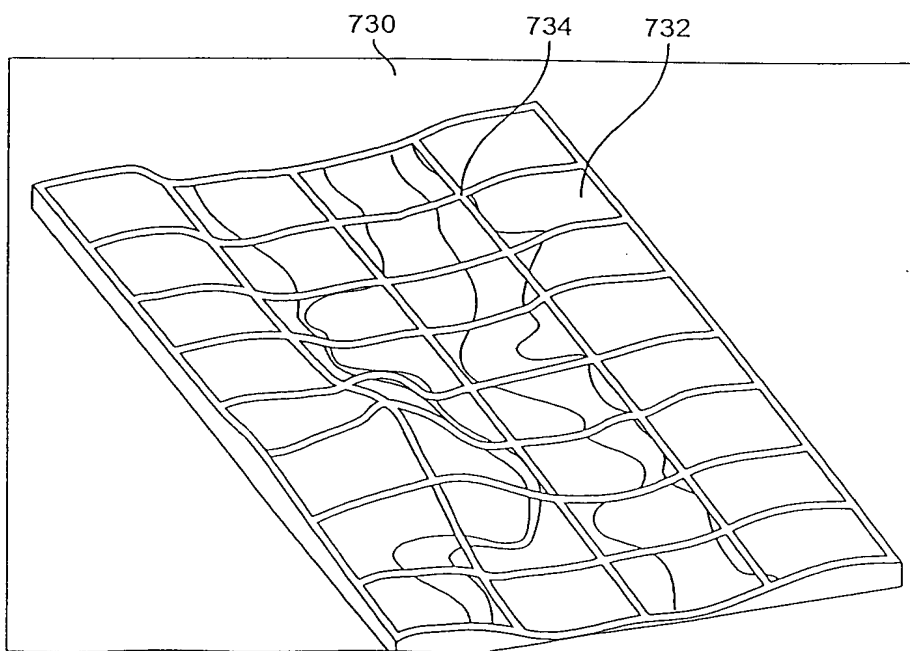


Figure 81

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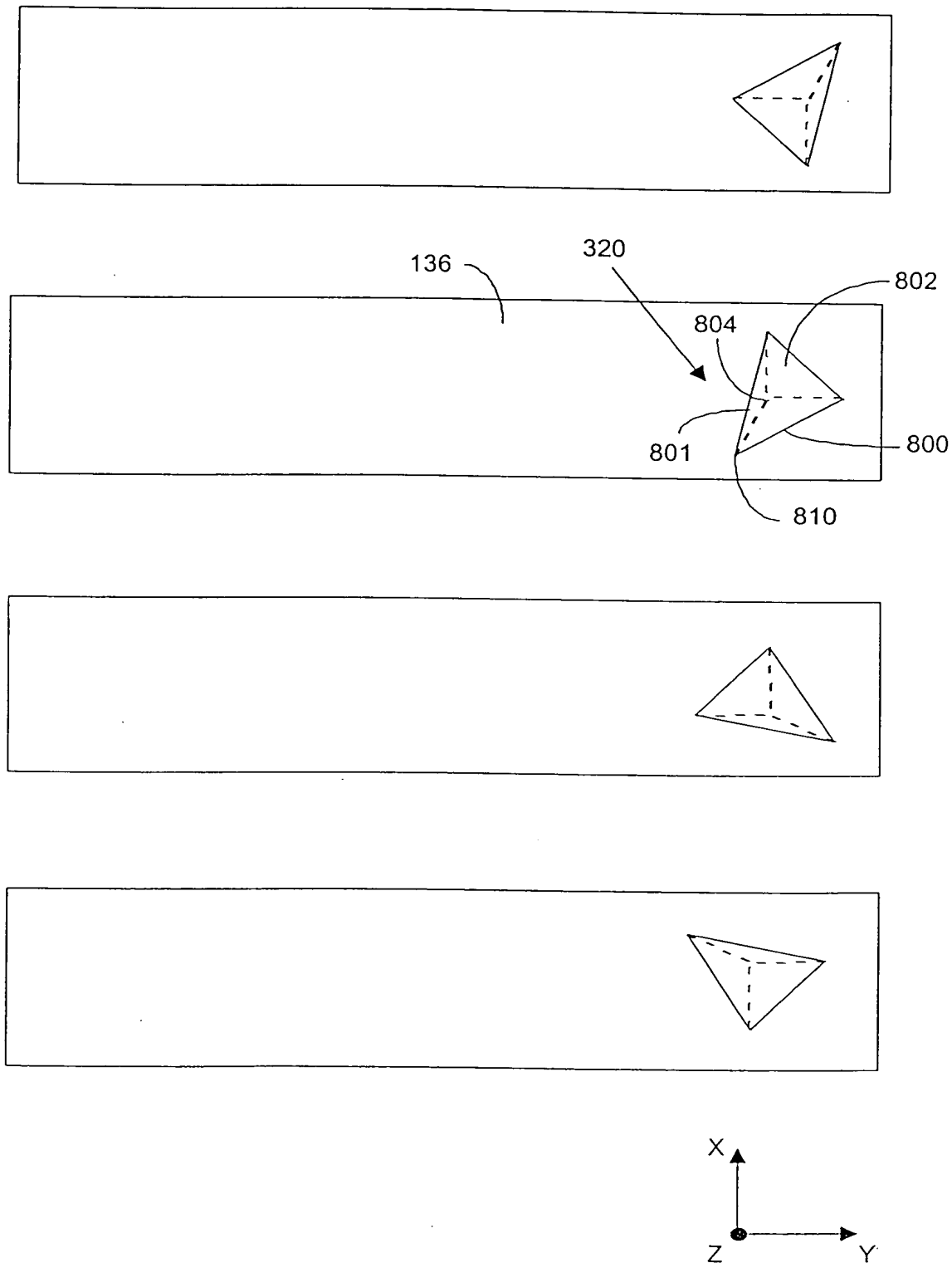
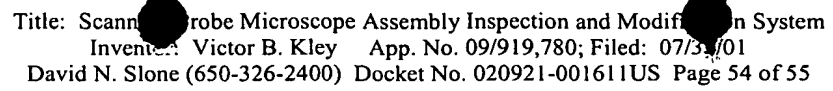


Figure 82



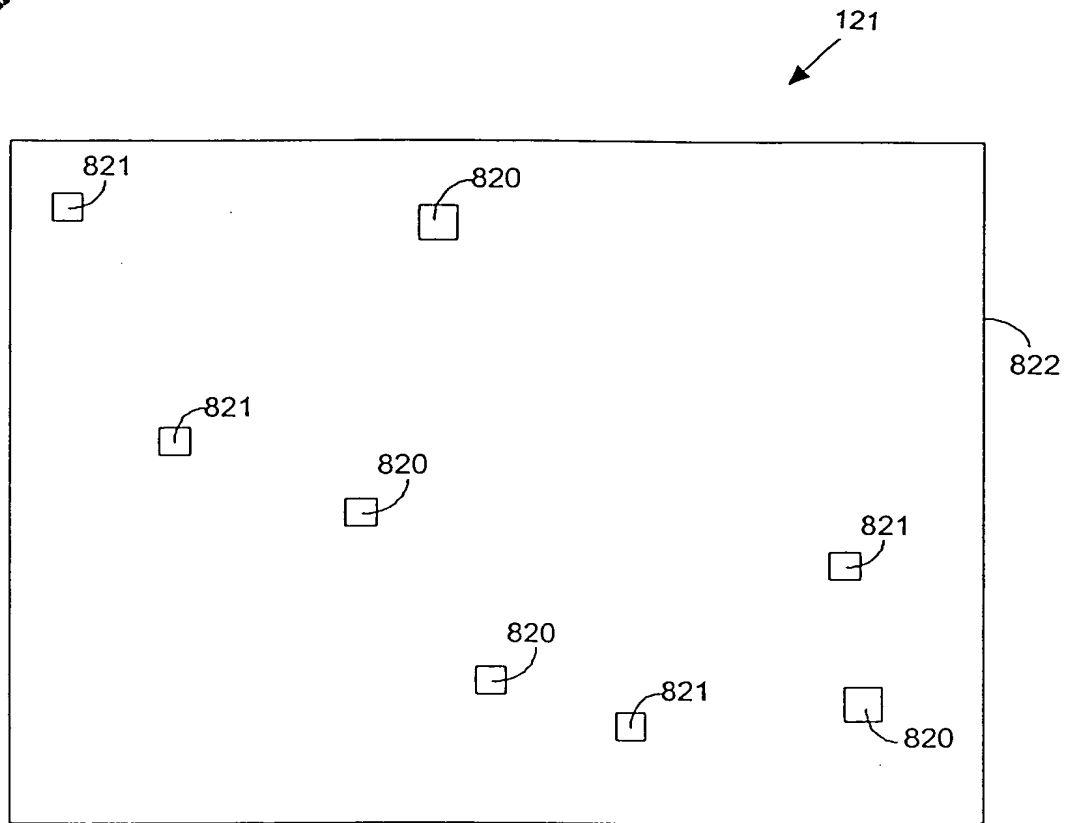
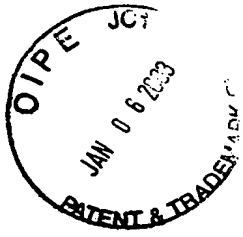


Figure 84

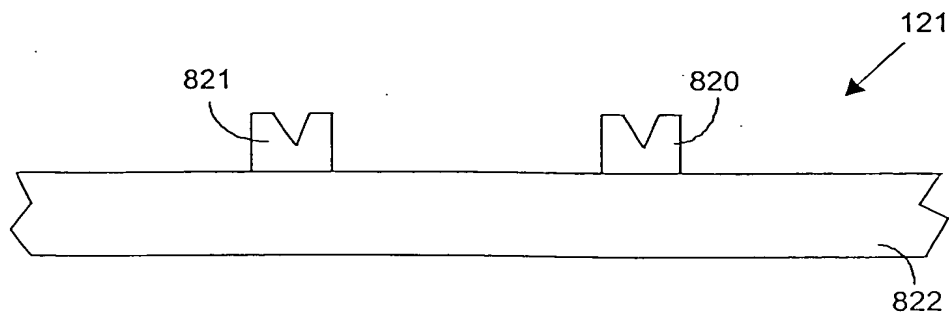


Figure 85

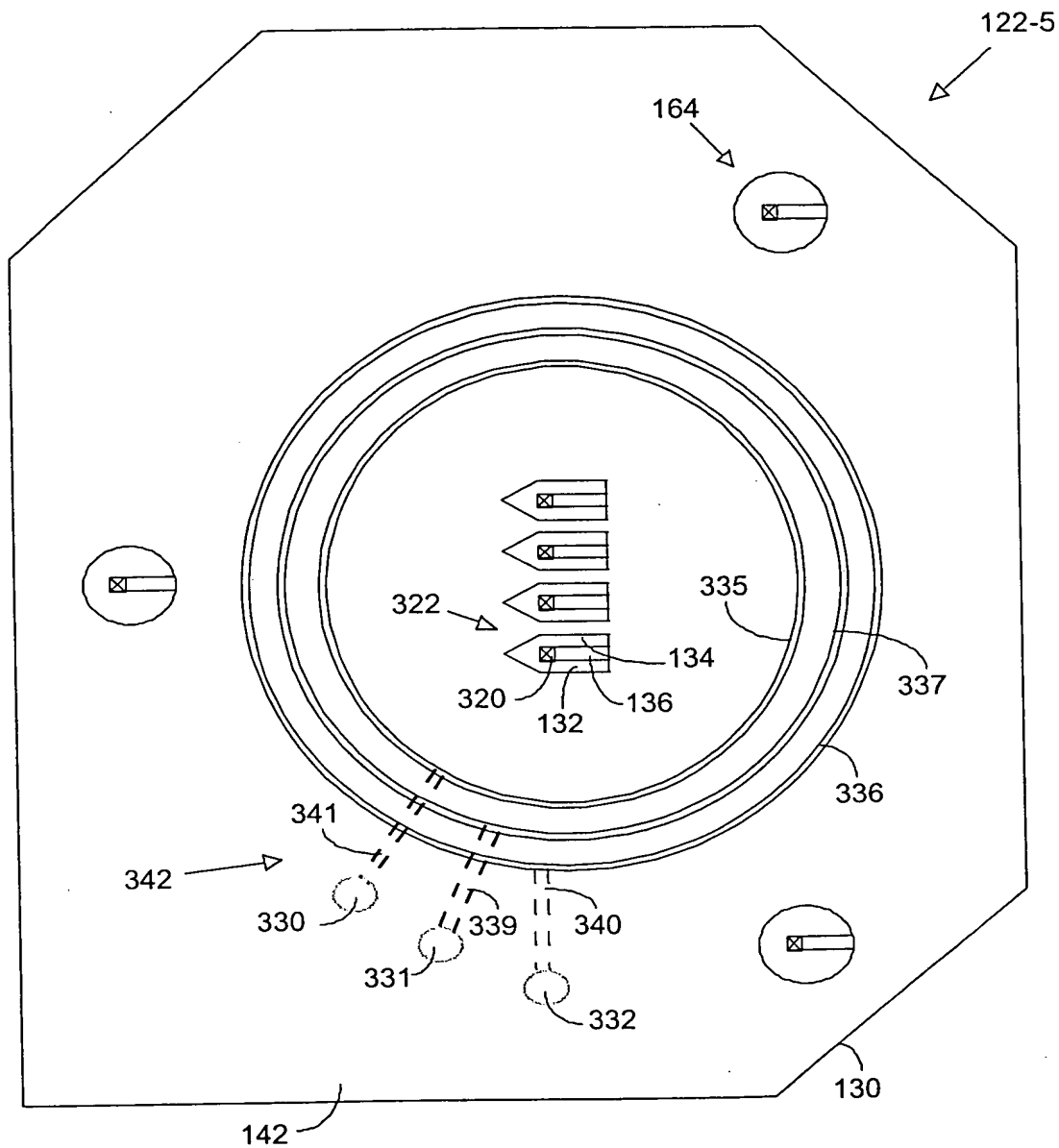


Figure 27

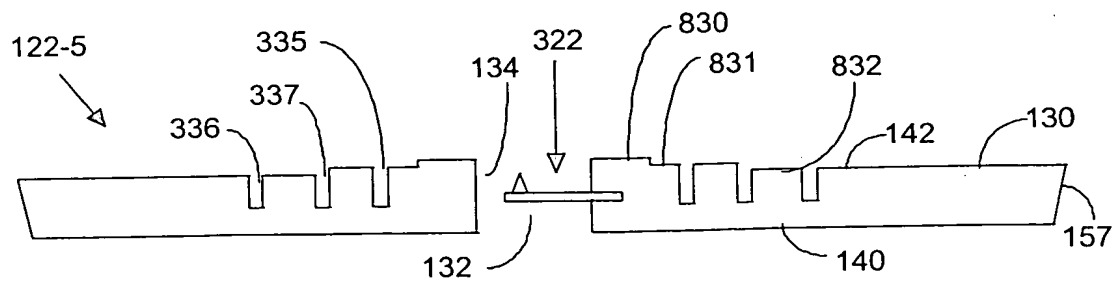


Figure 85